



## State of New Jersey

CHRIS CHRISTIE  
Governor

### DEPARTMENT of ENVIRONMENTAL PROTECTION

BOB MARTIN  
Commissioner

KIM GUADAGNO  
Lt. Governor

Division of Air Quality  
Bureau of Air Permits  
401 E. State Street, 2<sup>nd</sup> floor, P.O. Box 420, Mail Code 401-02  
Trenton, NJ 08625-0420

### Air Pollution Control Operating Permit Significant Modification and Preconstruction Approval

Permit Activity Number: BOP100001

Program Interest Number: 45949

Mailing Address	Plant Location
AUGUSTUS M MOSCA COUNTY ADMINISTRATOR/BD CLERK BURLINGTON CNTY BD OF CHOSEN FREEHOLDERS PO BOX 6000 - 49 RANOCAS RD Mount Holly, NJ 08060	BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX 21939 Columbus Rd Mansfield Twp. Burlington County

Initial Operating Permit Approval Date: June 28, 2005

Significant Modification Approval Date:

Operating Permit Expiration Date: June 27, 2015

This significant modification is approved and issued under the authority of Chapter 106, P.L. 1967 (N.J.S.A. 26:2C-9.2). The equipment at the facility must be operated in accordance with the requirements of this permit.

This approval, in response to your application, merges the provisions of the previously approved operating permit and the changes from this significant modification into a single comprehensive permit that replaces the one previously issued. This significant modification is for the following changes proposed for the facility in the current Title V permit:

- Installation of a new gas conditioning system (Venture system) as a pre-treatment device in the landfill gas stream prior to the LFG engines for removal of siloxanes.
- The Emission Unit U30 has been renamed as "Five (5) LFG Engines with a Gas Conditioning System and a Temperature Swing Adsorber (TSA) System".
- Installation of a new enclosed flare CD9 (Flare No. 6) with emission point (PT46) at U30-OS16, and OS26.
- Update N.J.A.C.7:27-19 requirement in U4-OS1.

Equipment at the facility referenced by this significant modification **is covered by** the permit shield, pursuant to the provisions of N.J.A.C. 7:27-22.17. Pursuant to N.J.A.C. 7:27-22.33(e), this significant modification consists of both a preconstruction approval and operating permit approval. This operating permit does not include compliance schedules as part of the approved compliance plan.

The permittee shall submit to the Department and to the EPA a periodic compliance certification, in accordance with N.J.A.C. 7:27-22.19. The certification shall be submitted electronically through the NJDEP online web portal – Periodic Compliance Certification service, and shall be certified pursuant to N.J.A.C. 7:27-1.39 by the responsible official. Access to DEP Online shall be obtained by following the instructions at: <http://www.state.nj.us/dep/online/>. The certification should be printed for submission to EPA. The schedule for compliance certifications set forth in the compliance plan in this operating permit. The annual compliance certification reporting period will cover the calendar year ending December 31. **The annual compliance certification is due to the Department and the EPA within 60 days after the end of each calendar year during which this permit was in effect.**

The annual compliance certification report may also be considered as your six month deviation report for the period from July 1 through December 31 which is due by January 30 of each year, as required by paragraph 13 in Section E, *General Provisions and Authorities*, of this permit, if the annual compliance certification is submitted by January 30.

New Jersey Department of Environmental Protection  
Air & Environmental Quality Compliance & Enforcement  
401 East State Street, P. O. Box 422  
Trenton, New Jersey 08625-0422

United States Environmental Protection Agency, Region II  
Air Compliance Branch  
290 Broadway  
New York, New York 10007-1866

New Jersey Department of Environmental Protection  
Air and Environmental Quality Compliance & Enforcement  
Southern Regional Enforcement Office  
22 South Clinton Avenue  
4 Station Plaza, P.O. Box 407  
Trenton, New Jersey 08625-0407

Your facility's current approved operating permit and any previous versions (e.g. superseded, expired, or terminated) are now available for download in the PDF format at: <http://www.nj.gov/dep/aqpp/>. After accessing the website, click on "Approved Operating Permits" listed under "Reports" and then type in the Program Interested (PI) Number as instructed on the screen. A RADIUS file for your permit, containing Facility Specific Requirements (Compliance Plan), Inventories, and Compliance Schedules (if needed), can be obtained by contacting your permit writer. Upon importing this information into your personal computer with RADIUS software, you will have up-to-date information in RADIUS format. RADIUS software, instructions, and help are available at the Department's website at [www.state.nj.us/dep/aqpp/](http://www.state.nj.us/dep/aqpp/). We also have an Operating Permit Help Line available from 9:00 AM to 4:00 PM daily, where you may speak to someone about any questions you may have. The Operating Permit Help Line number is 609-633-8248.

If, in your judgment, the Department is imposing any unreasonable condition of approval in this permit modification action, you may contest the Department's decision on the modification and request an adjudicatory hearing pursuant to N.J.S.A. 52:14b-1 et seq. and N.J.A.C. 7:27-22.32(a). All requests for an adjudicatory hearing must be received in writing by the Department within 20 calendar days of the date you receive this letter. The request must contain the information requested in N.J.A.C. 7:27-1.32 and the information on the enclosed Administrative Hearing Request Checklist and Tracking Form.

The permittee is responsible for submitting a timely and administratively complete operating permit renewal application. The Operating Permit Renewal Application consists of a RADIUS application and the Application Attachment available in Portable Document Format (PDF) and MS Word format at the Department's website <http://www.nj.gov/dep/aqpp/applying.html> (check Attachment to the RADIUS Operating Permit Renewal Application). Both the RADIUS application and the Application Attachment, along with any other supporting documents (saved on a CD) must be submitted with a cover letter (paper copy). The application is considered timely if it is received at least 12 months before the expiration date of the operating permit. To be deemed administratively complete, an application for renewal of the operating permit shall include all of the information required by the application form for the renewal and the information required pursuant to N.J.A.C. 7:27-22.30(d). However, consistent with N.J.A.C. 7:27-22.30(c), the permittee is encouraged to submit the renewal application at least 15 months prior to expiration of the operating permit, so that the Department can notify the applicant of any deficiencies in the application. This will allow the permittee to correct any deficiencies, and to better ensure that the application is administratively complete by the renewal deadline. Only applications which are timely and administratively complete will be eligible for coverage by an application shield.

Permittees that are subject to Compliance Assurance Monitoring (CAM), pursuant to 40 CFR 64, shall develop a CAM Plan for modified equipment as well as existing sources. Details of the rule and guidance on how to prepare a plan can be found at EPA's website: [www.epa.gov/ttn/emc/cam.html](http://www.epa.gov/ttn/emc/cam.html). In addition, CAM Plans must be included as part of the permit renewal application. Permittees that do not submit a CAM Plan may have their modification applications denied, pursuant to N.J.A.C. 7:27-22.3.

If you have any questions regarding this permit approval, please call your permit writer, William Forero, at (609) - 292-1079.

Approved by:

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Yaso Sivaganesh  
Bureau of Air Permits

Enclosure

CC: S. Riva, USEPA Region II

## Administrative Hearing Request Checklist and Tracking Form

### I. Document Being Appealed

Name of the Facility	Program Interest (PI) Number	Permit Activity Number	Issuance Date
BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX	45949	BOP100001	

### II. Contact Information

Name of Person Requesting Hearing	Name of Attorney (if applicable)
Address:	Address:
Telephone:	Telephone:

### III. Please include the following information as part of your request:

- A. The date the permittee received the permit decision,
- B. One printed and two PDF (or scanned) copies of the document being appealed saved on two CDs – for submitting to address 1 below;  
A PDF (or scanned) copy of all documents being submitted to the Office of Legal Affairs saved on a CD – for submitting to address 2 below;
- C. The legal and factual questions you are appealing;
- D. A statement as to whether or not you raised each legal and factual issues during the permit application process;
- E. Suggested revised or alternative permit conditions;
- F. An estimate of the time required for the hearing;
- G. A request, if necessary, for a barrier-free hearing location for physically disabled persons;
- H. A clear indication of any willingness to negotiate a settlement with the Department prior to the Departments processing of your hearing request to the Office of Administrative Law;

Mail this form, completed, signed and dated with all of the information listed above, including attachment, to:

- 1. New Jersey Department of Environmental Protection  
Office of Legal Affairs  
Attention: Adjudicatory Hearing Requests  
401 E. State Street, P.O. Box 402  
Trenton, New Jersey 08625-0402
- 2. Mr. Bachir Bouzid  
Air Quality Permitting Program  
New Jersey Department of Environmental Protection  
401 E. State Street, 2nd Floor, P.O. Box 420, Mail Code 401-02  
Trenton, New Jersey 08625-0420  
Phone: (609) 633-2829

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

## Administrative Hearing Request Checklist and Tracking Form

### IV. If you are not the applicant but rather an interested person claiming to be aggrieved by the permit decision, please include the following information:

1. The date you or your agent received notice of the permit decision (include a copy of that permit decision with your hearing request);
2. Evidence that a copy of the request has been delivered to the applicant for the permit which is the subject of the permit decision;
3. A detailed statement of which findings of fact and/or conclusion of law you are challenging;
4. A description of your participation in any public hearings held in connection with the permit application and copies of any written comments you submitted;
5. Whether you claim a statutory or constitutional right to a hearing, and, if you claim such a right, a reference to the applicable statute or explanation of how your property interests are affected by the permit decision;
6. If the appeal request concerns a CAFRA permit decision, evidence that a copy of the request has been delivered to the clerks of the county and the municipality in which the project which is the subject of the permit decision is located;
7. Suggested revised or alternative permit conditions;
8. An estimate of the time required for the hearing;
9. A request, if necessary, for a barrier-free hearing location for physically disable persons;
10. A clear indication of any willingness to negotiate a settlement with the Department prior to the Department's transmittal of the hearing request to the Office of Administrative Law;

Mail this form, completed, signed and dated with all of the information listed above, including attachment, to:

1. New Jersey Department of Environmental Protection  
Office of Legal Affairs  
Attention: Adjudicatory Hearing Requests  
401 East State Street, P.O. Box 402  
Trenton, New Jersey 08625-0402
3. Mr. Bachir Bouzid  
Air Quality Permitting Program  
New Jersey Department of Environmental Protection  
401 E. State Street, 2nd Floor, P.O. Box 420, Mail Code 401-02  
Trenton, New Jersey 08625-0420  
Phone: (609) 633-2829

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**Signature**

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**Date**

**Facility Name: BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX**

**Program Interest Number: 45949**

**Permit Activity Number: BOP100001**

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## **Section A**

**Facility Name: BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX**

**Program Interest Number: 45949**

**Permit Activity Number: BOP100001**

### **REASON FOR PERMIT**

The reason for issuance of this permit is to comply with the air pollution control permit provisions of Title V of the federal Clean Air Act, federal rules promulgated at 40 CFR 70, and state regulations promulgated at N.J.A.C. 7:27-22, which requires the state to issue operating permits to major facilities and minor facilities that are in certain designated source categories. This is the operating permit for the facility listed on the cover page, which includes a significant modification for the following changes proposed for the facility in the current Title V permit:

- Installation of a new gas conditioning system (Venture system) as a pre-treatment device in the landfill gas stream prior to the LFG engines for removal of siloxanes.
- The Emission Unit U30 has been renamed as "Five (5) LFG Engines with a Gas Conditioning System and a Temperature Swing Adsorber (TSA) System".
- Installation of a new enclosed flare CD9 (Flare No. 6) with emission point (PT46) at U30-OS16, and OS26.
- Update N.J.A.C.7:27-19 requirement in U4-OS1.

New Jersey has elected to integrate its Title I New Source Review (NSR) preconstruction permits with the new Title V operating permits instead of issuing separate permits. Consequently, the existing preconstruction permit provisions that were previously approved for this facility have been consolidated into this permit. This permit may also include applicable requirements for grandfathered sources.

This permit action consolidates previously approved permit terms and conditions into one single permit for the facility. The New Jersey Department of Environmental Protection (Department) issues this operating permit authorizing the facility to operate equipment and air pollution control devices. In the operating permit application, the facility represented that it meets all applicable requirements of the federal Clean Air Act and the New Jersey Air Pollution Control Act codified at N.J.S.A. 26:2C. Based on an evaluation of the data contained in the facility's application, the Department has approved this operating permit.

This permit allows this facility to operate the equipment and air pollution control devices specified in this permit and emit up to a level specified for each source operation. The signatories named in the application are responsible for ensuring that the facility is operated in a manner consistent with this permit, its conditions, and applicable rules.

## **Section B**

**Facility Name: BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX**

**Program Interest Number: 45949**

**Permit Activity Number: BOP100001**

### **DEFINITIONS**

The terms used in this permit are used consistent with the definitions at N.J.A.C. 7:27-1 and N.J.A.C. 7:27-22. Any terms defined in this section are not defined at N.J.A.C. 7:27-1 or N.J.A.C. 7:27-22, and are needed for clarifying the permit.

“Permitting Authority” means the New Jersey Department of Environmental Protection (NJDEP).

“The EPA,” or the “Administrator,” means the Administrator of the EPA or his designee.

“M” preceding a unit of measure means one thousand. For example, “10 M gal.” means ten thousand gallons.

“MM” preceding a unit of measure means one million. For example, “10 MM gal.” means ten million gallons.

“Grandfathered” means, in reference to equipment or control apparatus, that construction, reconstruction, or modification occurred prior to enactment of N.J.S.A. 26:2C-9.2 on June 15, 1967, or prior to the subsequent applicable revisions to rules and regulations codified at N.J.A.C. 7:27-8 that occurred March 5, 1973, June 1, 1976, April 5, 1985, and October 31, 1994, and no construction, reconstruction, or modification of the equipment or control apparatus has occurred since.

“Compliance Plan” means the applicable requirements, monitoring requirements, recordkeeping requirements, and submittal/action requirements detailed in Section G, Facility Specific Requirements, of the operating permit.



## Section C

**Facility Name: BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX**

**Program Interest Number: 45949**

**Permit Activity Number: BOP100001**

### POLLUTANT EMISSIONS SUMMARY

Table 1: Total emissions from all significant source operations at the facility.

Facility's Potential Emissions from all Significant Source Operations (tons per year)											
Source Categories	Primary						Secondary				
	VOC (total)	NO <sub>x</sub>	CO	SO <sub>2</sub>	TSP (total)	Other* (total)	PM <sub>10</sub> (total)	PM <sub>2.5</sub> (total)	Pb	HAPs* (total)	CO <sub>2</sub> e <sup>1</sup>
Emission Units Summary	119.4	109.4	384	52.4	35.5	4,004	31.7	16.0	NA	0.356	
Batch Process Summary	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Group Summary	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total Emissions from Significant Source Operations <sup>2</sup>	119.4	109.4	384	52.4	35.5	4,004	31.7	16.0	NA	0.356	7,658,075

Table 2: Estimate of total emissions from all insignificant source operations and total emissions from Non-Source Fugitives at the facility.

Emissions from all Insignificant Source Operations and Non-Source Fugitive Emissions (tons per year)										
Source Categories	Primary						Secondary			
	VOC (total)	NO <sub>x</sub>	CO	SO <sub>2</sub>	TSP (total)	Other (total)	PM <sub>10</sub> (total)	PM <sub>2.5</sub> (total)	Pb	HAPs (total)
Estimate of Total Emissions from Insignificant Source Operations <sup>2</sup>	0.036	0.633	0.103	0.032	0.032	N/A	0.032	N/A	N/A	N/A
Total Non-Source Fugitive Emissions <sup>3</sup>	N/A	N/A	N/A	N/A	429.7	N/A	183.4	N/A	N/A	N/A

VOC: Volatile Organic Compounds

NO<sub>x</sub>: Nitrogen Oxides

CO: Carbon Monoxide

SO<sub>2</sub>: Sulfur Dioxide

TSP: Total Suspended Particulates

Other: Any other air contaminant

regulated under the Federal CAA

PM<sub>10</sub>: Particulates under 10 microns

PM<sub>2.5</sub>: Particulates under 2.5 microns

Pb: Lead

HAPs: Hazardous Air Pollutants

CO<sub>2</sub>e: Carbon Dioxide equivalent

\*Emission summary of individual HAPs and Other Air Contaminants is provided on next page.

<sup>1</sup> Total CO<sub>2</sub>e emissions for the facility that includes all significant sources (emission units, batch process, group) and insignificant sources.

<sup>2</sup> Significant Source Operations and Insignificant Source Operations are defined at N.J.A.C 7:27-22.1.

<sup>3</sup> Non-Source fugitive emissions are defined at N.J.A.C 7:27-22.1 and are included if the facility falls into one or more categories listed at N.J.A.C 7:27-22.2(a)2.

## Section C

**Facility Name: BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX**

**Program Interest Number: 45949**

**Permit Activity Number: BOP100001**

### POLLUTANT EMISSIONS SUMMARY

The following table shows the hazardous air pollutants (HAP) emissions summary<sup>4</sup>:

HAP	TPY
Benzene	0.356

The following table shows the “Other” air contaminants emissions summary:

Other Air Contaminant	TPY
Methane	4,004

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<sup>4</sup> Do not sum the values below for the purpose of establishing a total HAP potential to emit. See previous page for the allowable total HAP emissions.

## Section D

**Facility Name: BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX**

**Program Interest Number: 45949**

**Permit Activity Number: BOP100001**

### **POLLUTION PREVENTION REPORTING**

#### General Pollution Prevention Conditions

The following evaluation requirements are included to track the facility's progress in several critical areas identified in the National Environmental Performance Partnership System (NEPPS). Nitrogen Oxides (NO<sub>x</sub>) and Volatile Organic Compounds (VOC) are precursors to the air pollutant Ozone, for which New Jersey is non-attainment with the air quality standard for the protection of public health. The control of hazardous air pollutants (HAPs) is also a focus item for the next decade in order to minimize localized hot spots and general urban air toxics levels. Therefore, the Department is requiring evaluation of emission trends at 5-year intervals for major sources of these air contaminants. Also, as part of significant modification applications, proposed major increases of these air contaminants require evaluation of pollution prevention and cross media effects.

The evaluation of these trends requires no increased monitoring. Rather it utilizes existing monitoring data, as reported annually in Emission Statements (for NO<sub>x</sub> and VOC) and annual Release and Pollution Prevention Reports (for HAPs). The intent of this evaluation is to better utilize the existing data by having the company, the public and the Department review major source trends periodically, as part of the 5-year renewal review and public comment process. The Department requests that the facility-wide trends be presented on graphs for attachment to the public information document for the 5-year renewal.

Pollution prevention includes changes that result in the reduction in use or generation of non-product output per unit of product. Cross media effects are practices that result in transferring the ultimate release or disposal of a contaminant from one environmental medium (e.g. air) to another environmental medium (e.g. water, solid or hazardous wastes).

#### Information to include with the renewal application:

1. The facility will evaluate annual emission trends over the last five years for actual air contaminant emissions of Volatile Organic Compounds (VOC), Nitrogen Oxides (NO<sub>x</sub>), if the facility's potential to emit VOC or NO<sub>x</sub> is greater than 25 tons per year, or any Hazardous Air Pollutants (HAP), for which the facility's potential to emit is greater than 10 tons per year. The VOC and NO<sub>x</sub> emission data should reflect annual emission statement reports submitted pursuant to N.J.A.C. 7:27-21, and the HAP emissions data should reflect the annual Release and Pollution Prevention Report submitted pursuant to N.J.A.C. 7:1G-4 and 5 and N.J.A.C. 7:1K-6. Although not required, the Department encourages the facility to explain the reason for any significant trend, including whether it is the result of cross media shifts (to air, water, or solid waste) and/or pollution prevention. Changes should be itemized for each emission unit (or process) with a potential to emit over five tons per year of VOC or NO<sub>x</sub> or a potential to emit over one ton per year of any HAP. Also, show the net change for the facility.
2. The facility will summarize annual potential to emit limits (allowable emissions) for VOC, NO<sub>x</sub>, and HAPs, which are subject to reporting under 1 above, for the last five years. Changes should be itemized for each emission unit (or process) with a potential to emit over five tons per year of VOC or NO<sub>x</sub> or a potential to emit over one ton per year of any HAP. Also, show the net change for the facility.
3. The facility will summarize five-year trends in annual VOC, NO<sub>x</sub>, and HAP emissions, which are subject to reporting under 1 above, on a pound per unit of product basis, based on annual actual emissions and annual production over the five year period. Changes should be itemized for each emission unit (or

process) with a potential to emit over five tons per year of VOC or NO<sub>x</sub> or a potential to emit over one ton per year of any HAP. Also, show the net change for the facility.

4. The facility will discuss five-year trends in actual air contaminant emissions of non-source VOC and HAP fugitives, which are subject to reporting under 1 above; explain measures taken to minimize such fugitives; and provide an explanation for any significant changes.

Information to include with an application for a Significant Modification to this permit:

1. For any significant modifications, the facility is encouraged to explain any cross media shifts of VOC and HAP air contaminants as part of the significant modification application. If an explanation is provided, the facility should identify the pollutant and the specific environmental media to which the pollutant is anticipated to be transferred, whether it be from air to solid waste or water, or from water or solid waste to the air.

## Section E

**Facility Name: BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX**

**Program Interest Number: 45949**

**Permit Activity Number: BOP100001**

### GENERAL PROVISIONS AND AUTHORITIES

#### Operating Permits

1. No permittee shall allow any air contaminant, including an air contaminant detectable by the sense of smell, to be present in the outdoor atmosphere in a quantity and duration which is, or tends to be, injurious to human health or welfare, animal or plant life or property, or which would unreasonably interfere with the enjoyment of life or property. This shall not include an air contaminant which occurs only in areas over which the permittee has exclusive use or occupancy. Conditions relative only to nuisance situations, including odors, are not considered Federally enforceable. [N.J.A.C. 7:27-22.16(g)8]

2. Any deviation from operating permit requirements which results in a release of air contaminants shall be reported to the Department as follows:

If the air contaminants are released in a quantity or concentration which poses a potential threat to public health, welfare or the environment or which might reasonably result in citizen complaints, the permittee shall report the release to the Department:

- i. Immediately on the Department hotline at 1-877-927-6337, pursuant to N.J.S.A. 26:2C-19(e); and
- ii. As part of the compliance certification required in N.J.A.C. 7:27-22.19(f). However, if the deviation is identified through source emissions testing, it shall be reported through the source emissions testing and monitoring procedures at N.J.A.C. 7:27-22.18(e)3; or

If the air contaminants are released in a quantity or concentration which poses no potential threat to public health, welfare or the environment and which will not likely result in citizen complaints, the permittee shall report the release to the Department as part of the compliance certification required in N.J.A.C. 7:27-22.19(f), except for deviations identified by source emissions testing reports, which shall be reported through the procedures at N.J.A.C. 7:27-22.18(e)3; or

If the air contaminants are released in a quantity or concentration which poses no potential threat to public health, welfare or the environment and which will not likely result in citizen complaints, and the permittee intends to assert the affirmative defense afforded by N.J.A.C. 7:27-22.16(l), the violation shall be reported by 5:00 P.M. of the second full calendar day following the occurrence, or of becoming aware of the occurrence, consistent with N.J.A.C. 7:27-22.16(l). [N.J.A.C. 7:27-22.19(g)]

3. The permittee shall comply with all conditions of the operating permit including the approved compliance plan. Any non-compliance with a permit condition constitutes a violation of the New Jersey Air Pollution Control Act N.J.S.A. 26:2C-1 et seq., or the CAA, 42 U.S.C. §7401 et seq., or both, and is grounds for enforcement action; for termination, revocation and reissuance, or for modification of the operating permit; or for denial of an application for a renewal of the operating permit. [N.J.A.C. 7:27-22.16(g)1]
4. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of its operating permit. [N.J.A.C. 7:27-22.16(g)2]

5. This operating permit may be modified, terminated, or revoked for cause by the EPA pursuant to 40 CFR 70.7(g) and revoked or reopened and modified for cause by the Department pursuant to N.J.A.C. 7:27-22.25. [N.J.A.C. 7:27-22.16(g)3]
6. The permittee shall furnish to the Department, within a reasonable time, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this operating permit; or to determine compliance with the operating permit. [N.J.A.C. 7:27-22.16(g)4]
7. The filing of an application for a modification of an operating permit, or of a notice of planned changes or anticipated non-compliance, does not stay any operating permit condition. [N.J.A.C. 7:27-22.16(g)5]
8. The operating permit does not convey any property rights of any sort, or any exclusive privilege. [N.J.A.C. 7:27-22.16(g)6]
9. Upon request, the permittee shall furnish to the Department copies of records required by the operating permit to be kept. [N.J.A.C. 7:27-22.16(g)7]
10. The Department and its authorized representatives shall have the right to enter and inspect any facility subject to N.J.A.C. 7:27-22, or portion thereof, pursuant to N.J.A.C. 7:27-1.31. [N.J.A.C. 7:27-22.16(g)9]
11. The permittee shall pay fees to the Department pursuant to N.J.A.C. 7:27. [N.J.A.C. 7:27-22.16(g)10]
12. Each permittee shall maintain records of all source emissions testing or monitoring performed at the facility and required by the operating permit in accordance with N.J.A.C. 7:27-22.19. Records shall be maintained, for at least five years from the date of each sample, measurement, or report. Each permittee shall maintain all other records required by this operating permit for a period of five years from the date each record is made. At a minimum, source emission testing or monitoring records shall contain the information specified at N.J.A.C. 7:27-22.19(b). [N.J.A.C. 7:27-22.19(a) and N.J.A.C. 7:27-22.19(b)]
13. In accordance with N.J.A.C. 7:27-22.19(c) and 22.19(d) 3, each permittee shall submit to the Department a six month deviation report relating to testing and monitoring required by the operating permit, not including information for testing and monitoring which have other reporting schedules specified in the permit. Normally, stack testing reporting is submitted within 45 days of test completion and continuous monitoring reporting is done quarterly. The six month report must address other specified monitoring, including, but not limited to, continuous and periodic monitoring data required by this permit. (See column two and three entitled "Monitoring Requirement" and "Recordkeeping Requirement," respectively, in the Facility Specific Requirement Section of this permit.). The six month reports for the testing and monitoring performed from January 1 through June 30, shall be reported by July 30 of the same calendar year; or from July 1 through December 31, shall be reported by January 30 of the following calendar year. Pursuant to N.J.A.C. 7:27-22.19(e), these six month reports shall clearly identify all deviations from operating permit requirements, the probable cause of such deviations, and any corrective actions taken. Any "None" listed in the Submittal/Action Requirement in the Operating Permit is not intended to override the six-month deviation report. The report shall be certified pursuant to N.J.A.C. 7:27-1.39 by a responsible official. The submittal procedure is listed in column entitled "Submittal/Action Requirement" in the Facility Specific Requirement Section FC of this permit. [N.J.A.C. 7:27-22.19(d) 3 and N.J.A.C. 7:27-22.19(e)]

An annual compliance certification required by paragraph 2 above and required by N.J.A.C. 7:27-19(f) may also be considered as your six month deviation report for the period from July 1 through December 31 which is due by January 30 of each year if the annual compliance certification is submitted by January 30.

14. For emergencies (as defined at 40 CFR 70.6(g)(1)) that result in non-compliance with any promulgated federal technology-based standard such as NSPS, NESHAPS, or MACT, a federal affirmative defense is available, pursuant to 40 CFR 70. To assert a federal affirmative defense, the permittee must use the procedures set forth in 40 CFR 70. The affirmative defense provisions described in 15 below may not be applied to any situation that caused the Facility to exceed any federally delegated regulation, including but not limited to NSPS, NESHAP, or MACT.

15. For situations other than those covered by 14 above, an affirmative defense is available for a violation of a provision or condition of the operating permit only if:
  - i. The violation occurred as a result of an equipment malfunction, an equipment start-up or shutdown, or during the performance of necessary equipment maintenance; and
  - ii. The affirmative defense is asserted and established as required by N.J.S.A. 26:2C-19.1 through 19.5 and any implementing rules. [N.J.A.C. 7:27-22.16(l)]
16. Each permittee shall meet all requirements of the approved source emissions testing and monitoring protocol during the term of the operating permit. [N.J.A.C. 7:27-22.18(j)]
17. Unless specifically exempted from permitting, temporary mobile equipment for short-term activities may be periodically used at major facilities, on-site for up to 90 days if the requirements listed below, (a) through (h) are satisfied.
  - a. The permittee will ensure that the temporary mobile equipment will not be installed permanently or used permanently on site.
  - b. The permittee will ensure that the temporary mobile equipment will not circumvent any State or Federal rules and regulations, even for a short period of time, and the subject equipment will comply with all applicable performance standards.
  - c. The permittee cannot use temporary mobile equipment unless the owner of the subject equipment has obtained and maintains an approved mobile preconstruction permit, issued pursuant to N.J.A.C. 7:27-8, prior to bringing the temporary mobile equipment to operate at the major facility.
  - d. The permittee is responsible for ensuring the temporary mobile equipment's compliance with the terms and conditions specified in its approved mobile preconstruction permit when the temporary mobile equipment operates on the property of the permittee.
  - e. The permittee will ensure that temporary mobile equipment utilized for short-term activities will not operate on site for more than a total of ninety (90) days during any calendar year.
  - f. The permittee will keep on site a list of temporary mobile equipment being used at the facility with the start date, end date, and record of the emissions from all such equipment (amount and type of each air contaminant) no later than 30 days after the temporary mobile equipment completed its job in accordance with N.J.A.C. 7:27-22.19(i) 3.
  - g. Emissions from the temporary mobile equipment must be included in the emission netting analysis required of the permittee by N.J.A.C. 7:27-18.7. This information is maintained on-site by the permittee and provided to the Department upon request in accordance with existing applicable requirements in the FC Section of its Title V permit.
  - h. Where short-term activities (employing temporary mobile equipment) will re-occur on at least an annual basis, the permittee is required to include such activities (and the associated equipment) within one year of the first use, in its Title V permit through the appropriate modification procedures.
18. Each owner and each operator of any facility, source operation, or activity to which this permit applies is responsible for ensuring compliance with all requirements of N.J.A.C. 7:27-22. If the owner and operator are separate persons, or if there is more than one owner or operator, each owner and each operator is jointly and severally liable for any fees due under N.J.A.C. 7:27-22, and for any penalties for violation of N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.3]
19. In the event of a challenge to any part of this operating permit, all other parts of the permit shall continue to be valid. [N.J.A.C. 7:27-22.16(f)]

20. The permittee shall ensure that no air contaminant is emitted from any significant source operation at a rate, calculated as the potential to emit, that exceeds the applicable threshold for reporting emissions set forth in the Appendix to N.J.A.C. 7:27-22, unless emission of the air contaminant is authorized by this operating permit. [N.J.A.C. 7:27-22.3(c)]
21. Consistent with the provisions of N.J.A.C. 7:27-22.3(e), the permittee shall ensure that all requirements of this operating permit are met. In the event that there are multiple emission limitations, monitoring, recordkeeping, and/or reporting requirements for a given source operation, the facility must comply with all requirements, including the most stringent.
22. Consistent with the provisions of N.J.A.C. 7:27-22.9(c), the permittee shall use monitoring of operating parameters, where required by the compliance plan, as a surrogate for direct emissions testing or monitoring, to demonstrate compliance with applicable requirements.
23. The permittee shall file a timely and complete application for:
  - Administrative Amendments [N.J.A.C. 7:27-22.20(c)];
  - Seven-Day-Notice changes [N.J.A.C. 7:27-22.22(e)];
  - Minor Modifications [N.J.A.C. 7:27-22.23(e)];
  - Significant Modifications [N.J.A.C. 7:27-22.24(e)]; and
  - Renewals [N.J.A.C. 7:27-22.30(b)].
24. Except as allowed in Technical Manual 1005, or otherwise allowed by the Department in this permit or in written guidelines/ procedures issued or approved by the Department, process monitors required by the Compliance Plan included in this permit must be operated at all times when the associated process equipment is operating. The permittee must keep a service log to document any outage.



## Section F

**Facility Name: BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX**

**Program Interest Number: 45949**

**Permit Activity Number: BOP100001**

### STATE-ONLY APPLICABLE REQUIREMENTS

N.J.A.C. 7:27-22.16(b)5 requires the Department to specifically designate as not being federally enforceable any permit conditions based only on applicable state requirements. The applicable state requirements to which this provision applies are listed in the table titled "State-Only Applicable Requirements."

### STATE-ONLY APPLICABLE REQUIREMENTS

The following applicable requirements are not federally enforceable:

<u>SECTION</u>	<u>SUBJECT ITEM</u>	<u>ITEM #</u>	<u>REF. #</u>
E	---	15	---
G	FC	---	3
G	FC	---	9

## **Section G**

**Facility Name: BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX**

**Program Interest Number: 45949**

**Permit Activity Number: BOP100001**

### **COMPLIANCE PLAN AND INVENTORIES**

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- FACILITY PROFILE (ADMINISTRATIVE INFORMATION)
- REASON FOR APPLICATION
- NON-SOURCE FUGITIVE EMISSIONS
- INSIGNIFICANT SOURCE EMISSIONS
- EQUIPMENT INVENTORY
- EQUIPMENT DETAILS
- CONTROL DEVICE INVENTORY
- CONTROL DEVICE DETAILS
- EMISSION POINT INVENTORY
- EMISSION UNIT/BATCH PROCESS INVENTORY

**Facility Name: BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX**  
**Program Interest Number: 45949**  
**Permit Activity Number: BOP100001**

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Subject Item:** FC

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	General Provisions: Defines numerous terms used in N.J.A.C. 7:27. Specifies procedures for making confidentiality claims, certifying applications, reports, and other documents to the Department, and requesting adjudicatory hearings and stays of the effective date of departmental decisions. Also, provides provisions regarding applicability, severability, and liberal construction of N.J.A.C. 7:27. [N.J.A.C. 7:27- 1]	None.	None.	None.
2	Control and Prohibition of Open Burning: Prohibits any person from open burning of rubbish, garbage, trade waste, buildings, structures, leaves, other plant life and salvage. Open burning of infested plant life or dangerous material may only be performed with a permit from the Department. [N.J.A.C. 7:27- 2]	None.	None.	Obtain an approved permit: Prior to occurrence of event (prior to open burning). [N.J.A.C. 7:27- 2]
3	Prohibition of Air Pollution: Notwithstanding compliance with other subchapters of N.J.A.C. 7:27, no person shall suffer, allow, or permit to be emitted into the outdoor atmosphere substances in quantities that result in air pollution as defined at N.J.A.C. 7:27-5.1. Applicable to all facilities located in New Jersey. [N.J.A.C. 7:27- 5]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	Prevention and Control of Air Pollution Control Emergencies: Requires that written Standby Plans, consistent with good industrial practice and safe operating procedures, be prepared for reducing the emission of air contaminants during periods of an air pollution alert, warning, or emergency. Any person responsible for the operation of a source of air contamination not set forth in Table 1 of N.J.A.C. 7:27-12 is not required to prepare such a plan unless requested by the Department in writing. [N.J.A.C. 7:27-12]	None.	None.	Comply with the requirement: Upon occurrence of event. Upon proclamation by the Governor of an air pollution alert, warning, or emergency, the permittee shall put the Standby Plan into effect. In addition, the permittee shall ensure that all of the applicable emission reduction objectives of N.J.A.C. 7:27-12.4, Table I, II, and III are complied with whenever there is an air pollution alert, warning, or emergency. [N.J.A.C. 7:27-12]
5	Emission Offsets Rules. [N.J.A.C. 7:27-18]	Other: When applying for minor/significant modification, demonstrate compliance with this applicable requirement which may call for specific monitoring and/or recordkeeping activities. [N.J.A.C. 7:27-18].	Other: When applying for minor/significant modification, demonstrate compliance with this applicable requirement which may call for specific monitoring and/or recordkeeping activities. [N.J.A.C. 7:27-18].	Comply with the requirement: Upon occurrence of event. Submit an administratively complete application when applying for a minor modification pursuant to N.J.A.C. 7:27-22.23 or a significant modification pursuant to N.J.A.C. 7:27-22.24. [N.J.A.C. 7:27-22]
6	Emissions Statements: Submit an annual emission statement (if required) electronically to the NJDEP by May 15 of each year (or by mutually agreed upon date, but no later than June 15 of each year). [N.J.A.C. 7:27-21]	Other: The emission statement will be based on monitoring, recording and recordkeeping of actual emissions, capture and control efficiencies, process rate and operating data for source operations with the potential to emit certain air contaminants. [N.J.A.C. 7:27-21].	Other: The emission statement and all supporting records shall be maintained on the operating premises for a period of five (5) years from the due date of each emission statement. [N.J.A.C. 7:27-21].	Submit an Annual Emission Statement: Annually (if required) electronically by May 15 or by any mutually agreed upon date, but not later than June 15 of each year. [N.J.A.C. 7:27-21]

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	Compliance Certification: Submit annual compliance certification for each applicable requirement, pursuant to N.J.A.C. 7:27-22.19(f), within 60 days after the end of each calendar year during which this permit was in effect. [N.J.A.C. 7:27-22]	None.	None.	Submit an Annual Compliance Certification: Annually to the Department and EPA within 60 days after the end of each calendar year during which this permit was in effect. The annual compliance certification reporting period will cover the calendar year ending December 31. The certification shall be submitted electronically through the NJDEP online web portal - Periodic Compliance Certification service, and shall be certified pursuant to N.J.A.C. 7:27-1.39 by the responsible official. Access to the NJDEP online web portal shall be obtained by following the instructions at: <a href="http://www.state.nj.us/dep/online/">http://www.state.nj.us/dep/online/</a> . The certification should be printed for submission to EPA. [N.J.A.C. 7:27-22]
8	Prevention of Air Pollution from Consumer Products and Architectural Coatings. [N.J.A.C. 7:27-24] and [N.J.A.C. 7:27-23]	None.	None.	None.
9	Any operation of equipment which causes off-property effects, including odors, or which might reasonably result in citizen's complaints shall be reported to the Department to the extent required by the Air Pollution Control Act, N.J.S.A. 26:2C-19(e). [N.J.S.A. 26: 2C-19(e)]	Other: Observation of plant operations. [N.J.S.A. 26: 2C-19(e)].	Other: Maintain a copy of all information submitted to the Department. [N.J.S.A. 26: 2C-19(e)].	Notify by phone: Upon occurrence of event. A person who causes a release of air contaminants in a quantity or concentration which poses a potential threat to public health, welfare or the environment or which might reasonably result in citizen complaints shall immediately notify the Department. Such notification shall be made by calling the Environmental Action Hotline at (877) 927-6337. [N.J.S.A. 26: 2C-19(e)]
10	Prevention of Significant Deterioration (PSD). [40 CFR 52.21]	Other: When applying for minor/significant modification, demonstrate compliance with this applicable requirement which may call for specific monitoring and/or recordkeeping activities. [40 CFR 52.21].	Other: When applying for minor/significant modification, demonstrate compliance with this applicable requirement which may call for specific monitoring and/or recordkeeping activities. [40 CFR 52.21].	Comply with the requirement: Upon occurrence of event. If subject to PSD, the permittee shall submit an administratively complete application when applying for a significant modification pursuant to N.J.A.C. 7:27-22.24. [N.J.A.C. 7:27-22]

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	National Emission Standards for Hazardous Air Pollutants (NESHAPS) for Asbestos. [40 CFR 61]	Other: Comply with 40 CFR 61.145 and 61.150 when conducting any renovation or demolition activities at the facility. [40 CFR 61].	Other: Comply with 40 CFR 61.145 and 61.150 when conducting any renovation or demolition activities at the facility. [40 CFR 61].	Comply with the requirement: Upon occurrence of event. The permittee shall comply with 40 CFR 61.145 and 61.150 when conducting any renovation or demolition activities at the facility. [40 CFR 61]
12	Protection of Stratospheric Ozone: 1) If the permittee manufactures, transforms, destroys, imports, or exports a Class I or Class II substance, the permittee is subject to all the requirements as specified at 40 CFR 82, Subpart A; 2) If the permittee performs a service on motor "fleet" vehicles when this service involves an ozone depleting substance refrigerant (or regulated substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified at 40 CFR 82, Subpart B. 3) The permittee shall comply with the standards for labeling of products containing or manufactured with ozone depleting substances pursuant to 40 CFR 82, Subpart E. 4). The permittee shall comply with the standards for recycling and emission reductions of Class I and Class II refrigerants or a regulated substitute substance during the service, maintenance, repair, and disposal of appliances pursuant to 40 CFR 82, Subpart F, except as provided for motor vehicle air conditioners (MVACs) in Subpart B. 5) The permittee shall be allowed to switch from any ozone depleting substance to any alternative that is listed in the Significant New Alternative Program (SNAP) promulgated pursuant to 40 CFR 82, Subpart G. [40 CFR 82]	Other: Comply with 40 CFR 82 Subparts A, B, E, F, and G. [40 CFR 82].	Other: Comply with 40 CFR 82 Subparts A, B, E, F, and G. [40 CFR 82].	Comply with the requirement: Upon occurrence of event. The permittee shall comply with 40 CFR 82 Subparts A, B, E, F, and G. [40 CFR 82]

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	Deviation Report: In accordance with N.J.A.C. 7:27-22.19(c) and 22.19(d)3, the permittee shall submit to the Department a certified six-month deviation report relating to testing and monitoring required by the operating permit, not including information for stack emissions testing or continuous emissions monitoring which have other reporting schedules specified in the permit (normally, stack test report is submitted within 45 days of test completion and continuous monitor reporting is done quarterly). Pursuant to N.J.A.C. 7:27-22.19(e), the six-month report must address other specified monitoring, including continuous and periodic monitoring requirements found in column 2 and 3, entitled "Monitoring Requirement" and "Recordkeeping Requirement," respectively, of the Facility Specific Requirements section of this permit. These six-month reports shall clearly identify all deviations from operating permit requirements, the probable cause of such deviations, and any corrective actions or preventive measures taken. If no deviations occurred, the report should say so. Any "None" listed in the Submittal/Action Requirement in the Operating Permit is not intended to override the six-month deviation report. [N.J.A.C. 7:27-22.19(d)3, N.J.A.C. 7:27-22.19(e), and [N.J.A.C. 7:27-22.19(c)]	None.	Other: The permittee shall maintain deviation reports for a period of five years from the date each report is submitted to the Department. [N.J.A.C. 7:27-22.19(a)].	Submit a report: As per the approved schedule. The six-month reports for other specified testing or monitoring required by the operating permit performed from January 1 through June 30 shall be submitted by July 30 of the same calendar year, and from July 1 through December 31, shall be submitted by January 30 of the following calendar year. The report shall be submitted electronically through the NJDEP online web portal - Periodic Compliance Certification service, and shall be certified pursuant to N.J.A.C. 7:27-1.39 by the responsible official. Access to the NJDEP online web portal shall be obtained by following the instructions at: <a href="http://www.state.nj.us/dep/online/">http://www.state.nj.us/dep/online/</a> . [N.J.A.C. 7:27-22]
14	No person shall combust used oil except as authorized pursuant to N.J.A.C. 7:27-20. [N.J.A.C. 7:27-20.2]	None.	None.	Comply with the requirement: Prior to occurrence of event (prior to burning used oil) either register with the Department pursuant to N.J.A.C. 7:27-20.3 or obtain a permit issued by the Department pursuant to N.J.A.C. 7:27-8 or 7:27-22, whichever is applicable. [N.J.A.C. 7:27-20.2(d)]



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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
15	Prevention of Accidental Releases: Facilities producing, processing, handling or storing a chemical, listed in the tables of 40 CFR Part 68.130, and present in a process in a quantity greater than the listed Threshold Quantity, shall comply with 40 CFR 68. [40 CFR 68]	Other: Comply with 40 CFR 68. [40 CFR 68].	Other: Comply with 40 CFR 68. [40 CFR 68].	Other (provide description): Other. Comply with 40 CFR 68 as described in the Applicable Requirement. [40 CFR 68]

**BOP100001****New Jersey Department of Environmental Protection  
Facility Specific Requirements****Subject Item: FG1 Dust from Working Face of Landfill , FG2 Dust from on-site Roadways, FG4 12,000 Gallons Liquid Propane Tank**

<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
1	No additional Applicable Requirements. [None]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Subject Item:** IS1 One 1,000 Gallons Gasoline Tank (UST) , IS15 One 1,000 Gallons Waste Oil Tank (AST), IS16 One 550 Gallons Waste Oil Tank (UST), IS30 One 500 Gallons Soils Blending Tank, IS31 One 550 Gallon Motor Oil Tank, IS32 One 275 Gallon Used Oil Tank, IS33 One 120 Gallon TSA Condensate Tank, IS41 One 300 Gallon Feed Hopper, IS42 One 300 Gallon Pre-Heat Tank, IS43 One 200 Gallon Digestive Storage Tank, IS45 One Horizontal 250 Gallon Tank "Distillate Fuel Oil #2"

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No Additional Applicable requirements. [N.J.A.C. 7:27-22]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Subject Item: IS2 One 10,000 Gallons Diesel Fuel Tank (UST)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Sulfur Content in Fuel <= 0.2 %. Maximum allowable sulfur content for fuel oil stored in Burlington County New Jersey (Zone 3). [N.J.A.C. 7:27- 9.2(a)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. The permittee shall check the fuel oil sulfur content on the invoices/bills of lading. [N.J.A.C. 7:27-22.16(o)]	None.	None.
2	The operating temperature shall not be greater than 350 degrees F. [N.J.A.C. 7:27-22.1]	None.	None.	None.
3	The vapor pressure of the liquid, excluding the vapor pressure of water, shall be less than 0.02 psia at the liquid's actual temperature or at 70 degrees F, whichever is higher. [N.J.A.C. 7:27-22.1]	None.	None.	None.
4	The tank shall have no visible emissions, exclusive of water vapor, to the outdoor atmosphere. [N.J.A.C. 7:27-22.1]	None.	None.	None.
5	The tank shall not emit any air contaminants which may cause an odor detectable outside the property boundaries of the facility. [N.J.A.C. 7:27-22.1]	None.	None.	None.
6	The tank(s) can not be subject to any NESHAPS, MACT, or NSPS air pollution control standards. [N.J.A.C. 7:27-22.1]	None.	None.	None.
7	The tank's potential to emit each TXS and each HAP shall not exceed the de minimis reporting thresholds as specified in N.J.A.C. 7:27-22, Appendix I, Table B. [N.J.A.C. 7:27-22.1]	None.	None.	None.
8	The percentage by weight of all HAPs collectively in the raw material stored in the tank shall be less than 1.0 percent. [N.J.A.C. 7:27-22.1]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	The owner or operator shall have readily available upon Department request a statement certified in accordance with N.J.A.C. 7:27-1.39, signed by the responsible official, as defined at N.J.A.C. 7:27-1.4, that: (1) specifies the contents of the tank; (2) affirms that the tank meets the applicable requirements of Ref. #2 to #8 above and (3) attests that the tank is in compliance with all other applicable State or federal air pollution requirements. [N.J.A.C. 7:27-22.1]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Subject Item:**      **IS3 One 275 Gallons Diesel Fuel Tank (AST) , IS5 One 550 Gallons Diesel Fuel Tank (AST), IS6 One 550 Gallons Diesel Fuel Tank (AST), IS7 One 300 Gallons Diesel Fuel Tank (AST), IS8 One 285 Gallons Diesel Fuel Tank (AST), IS13 One 275 Gallons Diesel Fuel Tank (AST), IS34 One 90 Gallon Diesel Tank on Screen, IS38 One 190 Gallon Fuel Tank for Generator**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Sulfur Content in Fuel <= 0.2 %. Maximum allowable sulfur content for fuel oil stored in Burlington County New Jersey (Zone 3). . [N.J.A.C. 7:27- 9.2(a)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records prior to permit renewal. The permittee shall check the fuel oil sulfur content on the invoices/bills of lading. [N.J.A.C. 7:27-22.16(o)]	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Subject Item:**        **IS20 8 Units - CO2 Generators (NG) each 60,000 Btu/hour, IS21 One Water Heater (NG) 200,000 Btu/hour, IS22 One Central Heating Unit (LPG) 60,000 Btu/hour, IS23 6 Units - Radiant Space Heating Tube (LPG) each 60,000 Btu/hour**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No Visible Emissions: No visible emissions, except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] and [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Subject Item:** IS35 One - LPG Ford Engine Generator Model 300GF-6005-A (616,000 Btu/hr) < 37kW

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 %. No person shall cause, suffer, allow or permit smoke the shade or appearance of which is darker than number 1 on the Ringelmann smoke chart or greater than 20 percent opacity, exclusive of visible condensed water vapor, to be emitted into the outdoor air from the combustion of fuel in any stationary internal combustion engine or any stationary turbine engine for a period of more than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.



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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Subject Item:** IS37 One - Greenhouse Generator (886,000 Btu/hr), IS39 One Fire Pump Diesel Engine (643,900 Btu/hr)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % , exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	Sulfur Content in Fuel <= 0.2 % by weight. Maximum allowable sulfur content in fuel oil by fuel type/viscosity and geographical zone. [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
3	<p>This emergency generator shall not be used:</p> <p>1. For normal testing and maintenance on days when the Department forecasts air quality anywhere in New Jersey to be "unhealthy for sensitive groups," "unhealthy," or "very unhealthy" as defined in the EPA's Air Quality Index at <a href="http://airnow.gov/">http://airnow.gov/</a>, as supplemented or amended and incorporated herein by reference, unless required in writing by a Federal or State law or regulation. Procedures for determining the air quality forecasts for New Jersey are available at the Department's air quality permitting web site at <a href="http://www.state.nj.us/dep/aqpp/aqforecast">http://www.state.nj.us/dep/aqpp/aqforecast</a>; and</p> <p>2. As a source of energy or power after the primary energy or power source has become operable again. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source. [N.J.A.C. 7:27-19.2(d)]</p>	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	The Permittee shall, once per month, record the total operating time from the emergency generator's hour meter if maximum rated output is 37 kW or greater. [N.J.A.C. 7:27-19.11]	Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	Other: The Permittee shall maintain on site and record in a logbook or computer data system the total operating time from the generator's hour meter. Once per month. [N.J.A.C. 7:27-19.11].	None.
5	<p>The emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. This emergency generator shall be operated only:</p> <ol style="list-style-type: none"> <li>1. During the performance of normal testing and maintenance procedures, as recommended in writing by the manufacturer and/or as required in writing by a Federal or State law or regulation,</li> <li>2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or</li> <li>3. When there is a voltage reduction issued by PJM and posted on the PJM internet website (www.pjm.com) under the "emergency procedures" menu. [N.J.A.C. 7:27-19.1]</li> </ol>	Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	<p>Other: The Permittee shall maintain on site and record in a logbook or computer data system, the following information if maximum rated output is 37 kW or greater:</p> <ol style="list-style-type: none"> <li>1. For each time the emergency generator is specifically operated for testing or maintenance: <ol style="list-style-type: none"> <li>i. The reason for its operation;</li> <li>ii. The date(s) of operation and the start up and shut down time;</li> <li>iii. The total operating time for testing or maintenance based on the generator's hour meter; and</li> <li>iv. The name of the operator; and</li> </ol> </li> <li>2. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction. [N.J.A.C. 7:27-19.11].</li> </ol>	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Subject Item:**           **IS40 One 500 Pound per Day Anaerobic Digester**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No person shall cause, suffer, allow or permit particles to be emitted from any stack or chimney of which is greater than 20 percent opacity, exclusive of water vapor, except for a period not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] & [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Subject Item:**           **IS44 One Used Oil Furnace**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No Visible Emissions: No visible emissions, except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] and [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	Burning of on specification used oil in space heaters covered by a registration: A person may burn used oil in a space heater pursuant to a registration provided that the total combined gross heat input of all space heaters at any one facility does not exceed 500,000 BTUs per hour. [N.J.A.C. 7:27-20.3]	Other: Manufacturer's document and Certification of Information.[N.J.A.C. 7:27-20.3].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	None.
3	The on specification used oil to be burned in the space heater shall conform to the following requirements: i. The used oil shall only be from conveyances that are powered by an internal combustion engine, consisting of any combination of the following substances: used crankcase oil, used brake fluid, used transmission fluid, or used power steering fluid; ii. None of the following shall be blended with the used oil: 1.0 Anti freeze; 2.0 Carburetor cleaner; 3.0 Paint thinner; 4.0 Paint; 5.0 Part degreaser solvents; 6.0 Oil additives; 7.0 Gasoline; 8.0 Chlorinated solvents; 9.0 Battery acid; or 10.0 A hazardous waste as defined pursuant to N.J.A.C. 7:26G 5; [N.J.A.C. 7:27-20.3(b)]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	The space heater for which a registration has been filed with the Department shall conform to the following requirements: 1.0 The space heater shall be used for the purpose of energy recovery only; 2.0 Any used oil burned in the space heater shall be: i. Generated on site by the owner or operator of the space heater, or by an agent of such person; ii. Generated by a household do it yourselfer used oil generator; or iii. Collected by do it yourselfer used oil collection centers, such as those organized by a municipality. [N.J.A.C. 7:27-20.3(b)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	None.
5	Maximum Gross Heat Input <= 340,000 BTU/hr. Maximum gross heat input based on manufacturer's specifications. [N.J.A.C. 7:27-20.3(b)4]	Other: Manufacturee's specifications.[N.J.A.C. 7:27-22.16(o)].	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U1 Landfill Areas (1 and 2), Three Flares (CD1, CD3 & CD8)

**Operating Scenario:** OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No person shall cause, suffer, allow or permit particles to be emitted from any stack or chimney of which is greater than 20 percent opacity, exclusive of water vapor, except for a period not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] & [N.J.A.C. 7:27- 6.2(e)]	Monitored by visual determination each month during operation, based on any consecutive 30-minute period. For compliance with the opacity standard, the permittee shall conduct visual opacity inspections during daylight hours. Visual inspections shall consist of a visual survey to identify if the stack has visible emissions, (other than condensed water vapor), greater than the prescribed standard (See Applicable Requirement). If visible emissions are observed, the permittee shall do the following: (1) Verify that the equipment and/or control device causing the emission is operating according to manufactures specifications and the operating permit compliance plan. If the equipment or control device is not operating properly, the permittee shall take corrective action immediately to eliminate the excess emissions. The permittee must report any permit violations to NJDEP pursuant to N.J.A.C. 7:27-22.19.; (2) If the corrective action taken in step (1) does not correct the opacity problem within 24 hours, the applicant shall perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2. Such test shall be conducted each day until corrective action is taken to successfully correct the opacity problem. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter each month during operation or electronic logging of parameter once per month during operation. Manually log in a logbook or in readily accessible computer memories and retain the following records: (1) Date and time of inspection; (2) Emission Point number; (3) Operational status of equipment; (4) Observed results and conclusions; (5) Description of corrective action taken if needed; (6) Date and time opacity problem was solved, if applicable; (7) N.J.A.C. 7:27B-2 results if conducted; and (8) Name of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]	None.
2	TSP <= 12.66 tons/yr. Maximum annual emissions rate, based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	PM-10 (Total) <= 12.66 tons/yr. Maximum annual emissions rate, based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	VOC (Total) <= 76.73 tons/yr. Maximum annual emissions rate, including 16.33 tons/year of Source Fugitive Emissions, and 60.4 from non-source fugitive emissions. Based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	NOx (Total) <= 38.33 tons/yr. Maximum annual emissions rate, based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	CO <= 128 tons/yr. Maximum annual emissions rate, based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	SO2 <= 14.8 tons/yr. Maximum annual emissions rate, based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	Methane <= 4,004 tons/yr Maximum annual Source fugitive emissions. Based on operating permit application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Benzene <= 0.356 tons/yr. Maximum annual emission rate from stack and source fugitives combined. Based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	SO2 <= 17.5 lb/hr Allowable Emission for Sulfur Compounds, applies to CD 1 only. [N.J.A.C.7:27-7.2(b)(2)] and. [N.J.A.C. 7:27- 7.2(r)]	None.	None.	None.
11	SO2 <= 35 lb/hr Allowable emission rate at any instant. Applies to CD 1. [N.J.A.C.7:27-7.2(b)(2)] and. [N.J.A.C. 7:27- 7.2(b)2]	None.	None.	None.
12	SO2 <= 19 lb/hr Allowable Emission for Sulfur Compounds, applies to CD 3 only. [N.J.A.C.7:27-7.2(b)(2)] and. [N.J.A.C. 7:27- 7.2(r)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	SO <sub>2</sub> ≤ 38 lb/hr Allowable emission rate at any instant. Applies to CD3. [N.J.A.C.7:27-7.2(b)(2)] and. [N.J.A.C. 7:27- 7.2(b)2]	None.	None.	None.
14	SO <sub>2</sub> ≤ 11 lb/hr Allowable Emission for Sulfur Compounds, applies to CD 8 only. [N.J.A.C.7:27-7.2(b)(2)] and. [N.J.A.C. 7:27- 7.2(r)]	None.	None.	None.
15	SO <sub>2</sub> ≤ 22 lb/hr Allowable emission rate at any instant. Applies to CD8. [N.J.A.C.7:27-7.2(b)(2)] and. [N.J.A.C. 7:27- 7.2(b)2]	None.	None.	None.
16	Any flare in use at a major VOC facility after May 31, 1995, shall: 1. Have been designed to reduce the concentration of VOC from the source operation by no less than 95 percent; 2. Have been installed in accordance with the specifications provided by the manufacturer of the flare; and 3. Be operated and maintained in accordance with the specifications provided by the manufacturer of the flare. [N.J.A.C. 7:27-16.13(a)]	None.	None.	None.



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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	<p>The owner or operator of any existing flare shall submit in writing, to the Assistant Director of Air and Environmental Quality Enforcement, Division of Enforcement Field Operations, Department of Environmental Protection, P.O. Box 027, Trenton, N.J. 08625-0027, the following information prior to May 31, 1995. The following information shall be submitted with any permit application for any flare to be installed after that date. Such submittal shall be certified in accordance with N.J.A.C. 7:27-1.39.</p> <ol style="list-style-type: none"> <li>1. The name of the owner and operator of the flare;</li> <li>2. The make, model and serial number of the flare;</li> <li>3. A copy of the manufacturer's specification of the performance standards for the flare;</li> <li>4. A statement that the flare was installed in accordance with the manufacturer's specifications;</li> <li>5. A statement that the flare is being operated and maintained in accordance with the manufacturer's specifications; and</li> <li>6. A statement that the flare will continue to be operated in accordance with the manufacturer's specifications. [N.J.A.C. 7:27-16.13(b)]</li> </ol>	None.	None.	None.
18	<p>The owner or operator shall inspect the flare before May 1 annually to verify that the flare continues to be operated in accordance with the manufacturer's specifications for the operation of the flare. [N.J.A.C. 7:27-16.13(c)]</p>	None.	<p>Other: The owner or operator shall record the following in a permanently bound log book at the conclusion of each inspection: (1) name of person conducting the inspection; (2) date on which the inspection was conducted; (3) an entry indicating which flare was inspected; (4) any changes or adjustments made to the flare as a result of the inspection; and (5) a statement stating that the flare is currently being operated in compliance with the manufacturer's specifications.[N.J.A.C. 7:27-16.13(c)].</p>	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
19	Minimum VOC Destruction and Removal Efficiency $\geq 98\%$ This requirement shall apply to the flares CD1 and CD3. Based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
20	Minimum VOC Destruction and Removal Efficiency $\leq 95\%$ This requirement shall apply to the CD8 flare only. based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
21	Total Landfill Design Capacity = 8,884,100 Mg [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
22	Minimum Operating Temperature at the Exit of the Combustion Section $\geq 1,500$ degrees F The flare shall be designed to operate at no less than the minimum operating temperature. The above requirements shall apply to both flares CD1 and CD3. [N.J.A.C. 7:27-22.16(e)]	Minimum Operating Temperature at the Exit of the Combustion Section: Monitored by temperature instrument continuously, based on 6 minute blocks. The permittee shall install, operate and maintain an alarm or other operational warning system, properly shielded from direct contact with the flame. The warning system shall be designed to notify the operator at any time flare temperature is detected to be less than the permitted operating temperature. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(e)]	Minimum Operating Temperature at the Exit of the Combustion Section: Recordkeeping by strip chart or data acquisition (DAS) system continuously. [N.J.A.C. 7:27-22.16(e)]	None.
23	Minimum Operating Temperature at the Exit of the Combustion Section $\geq 1,400$ degrees F The flare shall be designed to operate at no less than the minimum operating temperature. The above requirements shall apply to the CD8 flare. [N.J.A.C. 7:27-22.16(e)]	Other: Review of flare design specifications. [N.J.A.C. 7:27-22.16(e)].	Other: Maintain flare design specifications. [N.J.A.C. 7:27-22.16(e)].	None.
24	The permittee shall monitor the flare burners by a UV Scanner (CD1 and CD3) and Thermocouple (CD8) or any equivalent device to ensure the presence of a flame. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
25	Flowrate >= 200 ACFM Minimum Gas flow rate applying only to the (CD1) Flare. Based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Other: The landfill gas flow rate to the enclosed flare shall be continuously monitored (in scfm). The flow rate monitoring system shall: (1) correct and report from actual to standard cubic feet; (2) have an overall accuracy of not less than 0.5% or the best accuracy available; (3) be installed and operated in accordance with the instructions of the manufacturer; and (4) be equipped with a totalizer to continuously monitor the cumulative amount of landfill gas directed to the flare in scf.[N.J.A.C. 7:27-22.16(o)].	Flowrate: Recordkeeping by strip chart or data acquisition (DAS) system continuously. The owner or operator shall install and operate a strip chart of DAS within 180 days of the approval of the renewal (BOP080002). [N.J.A.C. 7:27-22.16(o)]	Install equipment: Within 180 days from the date of the approved permit. [N.J.A.C. 7:27-22.16(o)]
26	Flowrate >= 450 ACFM Minimum Gas flow rate applying only to the (CD3) Flare. Based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Other: The landfill gas flow rate to the enclosed flare shall be continuously monitored (in scfm). The flow rate monitoring system shall: (1) correct and report from actual to standard cubic feet; (2) have an overall accuracy of not less than 0.5% or the best accuracy available; (3) be installed and operated in accordance with the instructions of the manufacturer; and (4) be equipped with a totalizer to continuously monitor the cumulative amount of landfill gas directed to the flare in scf.[N.J.A.C. 7:27-22.16(o)].	Flowrate: Recordkeeping by strip chart or data acquisition (DAS) system continuously. The owner or operator shall install and operate a strip chart of DAS within 180 days of the approval of the renewal (BOP080002). [N.J.A.C. 7:27-22.16(o)]	Install equipment: Within 180 days from the date of the approved permit. [N.J.A.C. 7:27-22.16(o)]
27	Flowrate >= 120 ACFM Minimum Gas flow rate applying only to the (CD8) Flare. Based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Other: The landfill gas flow rate to the open flare shall be continuously monitored (in scfm). The flow rate monitoring system shall: (1) correct and report from actual to standard cubic feet; (2) have an overall accuracy of not less than 0.5% or the best accuracy available; (3) be installed and operated in accordance with the instructions of the manufacturer; and (4) be equipped with a totalizer to continuously monitor the cumulative amount of landfill gas directed to the flare in scf.[N.J.A.C. 7:27-22.16(o)].	Flowrate: Recordkeeping by strip chart or data acquisition (DAS) system continuously. The owner or operator shall install and operate a strip chart of DAS within 180 days of the approval of the renewal (BOP080002). [N.J.A.C. 7:27-22.16(o)]	Install equipment: Within 180 days from the date of the approved permit. [N.J.A.C. 7:27-22.16(o)]
28	Minimum Heat Content at BurnerTip >= 300 Btu/ft <sup>3</sup> . Applies to the three flares (CD1, CD3 and CD8). Based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
29	Residence Time $\geq$ 1 seconds Maximum Residence Time and applies to CD1, based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
30	Residence Time $\geq$ 0.6 seconds Maximum Residence Time and applies to CD3, based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
31	Lower Heat Content of source gas $\geq$ 400 BTU/scf. Lower heat content applies to the flares CD1 and CD3. Based on significant modification application BOP110001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
32	Lower Heat Content of source gas $\geq$ 400 BTU/scf. Lower heat content applies only to the CD8 flare. Based on significant modification application BOP110001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
33	The flare shall be equipped with an automatic shut-off of the flow of gas to the flare when flare combustion ceases and cannot be restarted by automatic re-light system. The flares shall also have a smokeless design. This requirement shall apply to three flares CD1, CD3 and CD8 [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
34	Auxiliary Fuel = Propane. The Department reserves the right to require that auxiliary fuel be added to the flares (CD1 and CD3 ) to ensure proper combustion, based on the analytical results of the landfill gas stream sampling. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
35	A flare retainer shall be installed on this stack for the purpose of reducing night glare, applies to CD8 only. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
36	All requests, reports, applications, submittals, and other communications to the Administrator pursuant to this part shall be submitted in duplicate to the appropriate Regional Office of the U.S. Environmental Protection Agency to the attention of the Director of the Division indicated in the list of EPA Regional Offices. [40 CFR 60.4(a)]	None.	None.	Submit a performance test protocol: As per the approved schedule. [40 CFR 60.4(a)]
37	Submit a copy of all requests, reports, applications, submittals, and other communication required by 40 CFR 60 to the Regional Enforcement Office of NJDEP. [40 CFR 60.4(b)]	None.	None.	Submit a report: As per the approved schedule to the Regional Enforcement Office as required by 40 CFR 60. [40 CFR 60.4(b)]
38	A notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in 40 CFR 60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional relevant information subsequent to this notice. [40 CFR 60.7(a)(4)]	None.	None.	Comply with the requirement: Upon occurrence of event submit notification to EPA Region II and the Regional Enforcement Office per 40 CFR 60.7. [40 CFR 60.7(a)(4)]
39	Any owner or operator subject to the provisions of this part shall maintain records of the occurrence and duration of any start-up, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. [40 CFR 60.7(b)]	None.	Other: Maintain Readily Accessible records.[40 CFR 60.7(b)].	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
40	The owner or operator shall maintain a file, suitable for inspection, of all monitoring measurements as indicated in Recordkeeping Requirement column. [40 CFR 60.7(f)]	None.	Other: The file shall include all measurements (including continuous monitoring system, monitoring device, and performance testing measurements), all continuous monitoring system performance evaluations, all continuous monitoring system or monitoring device calibration checks, all adjustments/maintenance performed on these systems or devices, and all other information required by 40 CFR Part 60 recorded in a permanent form suitable for inspection. [40 CFR 60.7(f)].	None.
41	The owner or operator shall conduct performance tests and data reduced in accordance with the test methods and procedures contained in each applicable subpart, unless otherwise specified and approved by the Administrator. [40 CFR 60.8(b)]	None.	None.	None.
42	Performance tests shall be conducted under conditions the Administrator specifies to the plant operator based on representative performance of the affected facility. Operations during periods of startup, shutdown and malfunction shall not constitute representative conditions for the purpose of the performance test nor shall emissions in excess of the level of the applicable emission limit be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard. [40 CFR 60.8(c)]	None.	None.	None.
43	The owner or operator shall provide the Administrator at least 30 days prior notice of any performance test and shall provide adequate performance testing facilities as specified in 40 CFR Part 60.8(e). [40 CFR 60.8(d)]	None.	None.	None.
44	Unless otherwise specified in the applicable subpart, each performance test shall consist of three separate runs using the applicable test method. [40 CFR 60.8(f)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
45	Compliance with NSPS standards specified in this permit, other than opacity, shall be determined only by performance tests established by 40 CFR 60.8, unless otherwise specified in NSPS. [40 CFR 60.11(a)]	None.	None.	None.
46	At all times, including periods of start-up, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operation and maintenance procedures, and inspection of the source. [40 CFR 60.11(d)]	None.	None.	None.
47	The (CD8) flare shall be designed and operated in accordance with the parameters established in 40 CFR 60.18(c) through (f). [40 CFR 60.18(b)]	Other: The Permittee shall implement the monitoring requirements specified in 40 CFR 60.756(c).[40 CFR 60.756(c)].	None.	Submit a report: As per the approved schedule. The Permittee shall submit a semi-annual report on April 30 and October 31 of each year to the Department as specified in 40 CFR 60.757(f). [40 CFR 60.757]
48	The (CD8) Flare shall be operated with a flame present at all times. [40 CFR 60.18(c)(2)]	Other: Monitored by a thermocouple or any other equivalent device to detect the presence of a flame. Continuously when the flare is in operation.[40 CFR 60.18(c)(2)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. All periods of operation of the enclosed flare providing start-up time, shut down time, reason for operation and name of operator making the entry must be recorded. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
49	Net Heating Value of Gas Flared $\geq$ 200 BTU/scf. Flares shall be used only with the net heating value of the gas being combusted being 11.2 MJ/scm (300 Btu/scf) or greater if the flare is steam-assisted or air-assisted; or with the net heating value of the gas being combusted being 7.45 MJ/scm (200 Btu/scf) or greater if the flare is nonassisted. The net heating value of the gas being combusted shall be determined by the methods specified in paragraph (applies to CD8) [40 CFR 60.18(c)(3)(ii)] and. [40 CFR 60.18(f)(3)]	None.	None.	None.
50	Exit Gas Velocity < 60 ft/sec. Applies to the CD8 flare. [40 CFR 60.18(c)(3)] &. [40 CFR 60.18(c)(4)(i)]	None.	None.	None.
51	Owners or operators of flares used to comply with the provisions of this subpart shall monitor these control devices to ensure that they are operated and maintained in conformance with their designs. Applicable subparts will provide provisions stating how owners or operators of flares shall monitor these control devices. (applies to CD8) [40 CFR 60.18(d)]	Other: Monitored by a thermocouple or any other equivalent device to detect the presence of a flame. Continuously when the flare is in operation.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. All periods of operation of the enclosed flare providing start-up time, shut down time, reason for operation and name of operator making the entry must be recorded. [N.J.A.C. 7:27-22.16(o)]	None.
52	Flares shall be operated at all times when emissions may be vented to them. [40 CFR 60.18(e)]	None.	None.	None.



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53	The owner or operator shall route all the collected gas to either: (1) an open flare designed and operated in accordance with the parameters established in 40 CFR 60.18; or (2) a control system designed and operated to reduce NMOC by 98 weight percent; or (3) an enclosed combustor designed and operated to reduce the outlet NMOC concentration to 20 ppmvd at 3% oxygen (as hexane), or less; or (4) a treatment system that processes the collected gas for subsequent sale or use. [All emissions from any atmospheric vent from the gas treatment system shall be subject to the requirements of 1, 2, or 3 above.] [40 CFR 60.752(b)(2)(iii)]	None.	Other: Except as provided in 40 CFR 60.752(b)(2)(i)(B), each owner or operator of a controlled landfill shall keep up-to-date, readily accessible records for the life of the control equipment of the data listed in paragraphs 40 CFR 60.758 (b)(1) through 40 CFR 60.758 (b)(4) of this section as measured during the initial performance test or compliance determination. Records of subsequent tests or monitoring shall be maintained for a minimum of 5 years. Records of the control device vendor specifications shall be maintained until removal. [40 CFR 60.758(b)].	None.
54	Operate the collection and control device installed to comply with this subpart in accordance with the provisions of [40 CFR 60.753], [40 CFR 60.755], [40 CFR 60.756] and [40 CFR 60.752(b)(2)(iv)]	None.	None.	None.
55	The owner or operator shall operate the collection system such that gas is collected from each area, cell, or group of cells in the landfill in which the solid waste has been in place for a period of (1) 5 years or more if active, or (2) 2 years or more if closed or at final grade. [40 CFR 60.753(a)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. Keep for at least five years up-to-date, readily accessible, on-site records of the design capacity report which triggered 40 CFR 60.752(b), the current amount of solid waste in-place, and the year-by-year waste acceptance rate. Off-site records may be maintained if they are retrievable within 4 hours. Either paper copy or electronic formats are acceptable. [40 CFR 60.758(a)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
56	The owner or operator shall operate the collection system with negative pressure at each wellhead except under the following conditions: (1) A fire or increased well temperature. The owner or operator shall record instances when positive pressure occurs in efforts to avoid a fire.; (2) Use of a geomembrane or synthetic cover.; (3) A decommissioned well. A well may experience a static positive pressure after shut down to accommodate for declining flows. All design changes shall be approved by the Administrator. [40 CFR 60.753(b)]	Other: The owner or operator shall measure gauge pressure in the gas collection header at each individual well, monthly. [40 CFR 60.756(a)(1)].	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The owner or operator shall record the gauge pressure in the gas collection header at each individual well. Also, the owner or operator shall record instances when positive pressure occurs in efforts to avoid a fire. These records shall be submitted with the annual reports as provided in 40 CFR 60.757(f)(1). [40 CFR 60.753(b)] &. [40 CFR 60.758(c)]	Comply with the requirement: As per the approved schedule. If a positive pressure exists, action shall be initiated to correct the exceedance within 5 calendar days, except for the three conditions allowed under 40 CFR 60.753(b). If negative pressure cannot be achieved without excess air infiltration within 15 calendar days of the first measurement, the gas collection system shall be expanded to correct the exceedance within 120 days of the initial measurement of positive pressure. Any attempted corrective measure shall not cause exceedances of other operational or performance standards. Instances of positive pressure in efforts to avoid a fire shall be submitted with the annual reports as provided in 40 CFR 60.757(f)(1). [40 CFR 60.753(b)] &. [40 CFR 60.755(a)(3)]
57	The owner or operator shall operate each interior wellhead in the collection system with a landfill gas temperature less than 55 deg C and with either a nitrogen level less than 20 percent or an oxygen level less than 5 percent. [40 CFR 60.753(c)]	Other: Monitoring shall occur monthly. The temperature shall be determined by a temperature instrument. The nitrogen level shall be determined using Method 3C. The oxygen shall be determined by an oxygen meter using Method 3A or 3C except that: (i) The span shall be set so that the regulatory limit is between 20 and 50 percent of the span; (ii) A data recorder is not required; (iii) Only two calibration gases are required, a zero and span, and ambient air may be used as the span; (iv) A calibration error check is not required; and (v) The allowable sample bias, zero drift, and calibration drift are +/- 10 percent. [40 CFR 60.753(c)] & [40 CFR 60.755(a)(5)] & [40 CFR 60.756(a)].	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The owner or operator shall log the nitrogen or oxygen concentration, and temperature at each interior wellhead in the collection system. [40 CFR 60.758(c)]	Comply with the requirement: As per the approved schedule. If a well exceeds one of these operating parameters, action shall be initiated to correct the exceedance within 5 calendar days. If correction of the exceedance cannot be achieved within 15 calendar days of the first measurement, the gas collection system shall be expanded to correct the exceedance within 120 days of the initial exceedance. Any attempted corrective measure shall not cause exceedances of other operational or performance standards. [40 CFR 60.755(a)(5)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
58	The owner or operator shall operate the collection system such that all collected gases are vented to a control system designed and operated in compliance with 40 CFR 60.752(b)(2)(iii). In the event the collection or control system is inoperable, the gas mover system shall be shut down and all valves in the collection and control system contributing to venting of the gas to the atmosphere shall be closed within 1 hour. [40 CFR 60.753(e)]	None.	None.	Comply with the requirement: As per the approved schedule. In the event the collection or control system is inoperable, the gas mover system shall be shut down and all valves in the collection and control system contributing to venting of the gas to the atmosphere shall be closed within 1 hour. [40 CFR 60.753(e)]
59	The owner or operator shall operate the control or treatment system at all times when the collected gas is routed to the system. [40 CFR 60.753(f)]	None.	None.	None.
60	If monitoring demonstrates that the operational requirements in 40 CFR 60.753(b) or (c) are not met, corrective action shall be taken as specified in 40 CFR 60.755(a)(3) through (5) or 40 CFR 60.755(c). If corrective actions are taken as specified in 40 CFR 60.755, the monitored exceedance is not a violation of the operational requirements in this section. [40 CFR 60.753(g)]	None.	None.	Comply with the requirement: As per the approved schedule. If monitoring demonstrates that the operational requirements in 40 CFR 60.753(b) or (c) are not met, corrective action shall be taken as specified in 40 CFR 60.755(a)(3) through (5) or 40 CFR 60.755(c). [40 CFR 60.753(g)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
61	For the purpose of identifying whether excess air infiltration into the landfill is occurring, the owner or operator shall monitor each well monthly for temperature and nitrogen or oxygen as provided in 40 CFR 60.753(c). If a well exceeds one of these operating parameters, action shall be initiated to correct the exceedance within 5 calendar days. If correction of the exceedance cannot be achieved within 15 calendar days of the first measurement, the gas collection system shall be expanded to correct the exceedance within 120 days of the initial exceedance. Any attempted corrective measure shall not cause exceedances of other operational or performance standards. An alternative timeline for correcting the exceedance may be submitted to the Administrator for approval. [40 CFR 60.755(a)(5)]	None.	None.	None.
62	The provisions of this subpart apply at all times, except during periods of start-up, shutdown, or malfunction, provided that the duration of start-up, shutdown, or malfunction shall not exceed 5 days for collection systems and shall not exceed 1 hour for treatment or control devices. [40 CFR 60.755(e)]	None.	None.	None.
63	Each owner or operator shall calibrate, maintain, and operate according to the manufacturer's specifications, a temperature monitoring device equipped with a continuous recorder and having a minimum accuracy of +/- 1 percent of the temperature being measured expressed in degrees Celsius or +/- 0.5 degrees Celsius, whichever is greater. [40 CFR 60.756(b)(1)]	Other: Monitored by temperature instrument measured at least every 15 minutes and averaged over the same time period of the performance test.[40 CFR 60.758(b)(2)].	Recordkeeping by strip chart or data acquisition (DAS) system continuously. The owner or operator shall install and operate a strip chart of DAS within 180 days of the approval of the renewal (BOP080002). [40 CFR 60.758(c)]	Install equipment: Within 180 days from the date of the approved permit. [N.J.A.C. 7:27-22.16(o)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
64	Each owner or operator shall calibrate, maintain, and operate according to the manufacturer's specifications, a gas flow rate measuring device that records flow to or bypass of the control device; or secure the bypass line valve in the closed position with a car-seal or a lock-and-key type configuration. The above requirements applied to the enclosed flares (CD1 and CD3). [40 CFR 60.756(b)(2)]	Monitored by gas flow rate instrument continuously recording the flow to the control device at least every 15 minutes; or by visual inspection of the seal or closure mechanism performed at least once every month to ensure that the valve is maintained in the closed position and that the gas flow is not diverted through the bypass line. [40 CFR 60.756(b)(2)]	Recordkeeping by strip chart or data acquisition (DAS) system continuously. The owner or operator shall install and operate a strip chart of DAS within 180 days of the approval of the renewal (BOP080002) or manual logging of visual inspections each month during operation. [40 CFR 60.756(b)(2)]	Install equipment: Within 180 days from the date of the approved permit. [N.J.A.C. 7:27-22.16(o)]
65	Each owner or operator seeking to comply with 40 CFR 60.752(b)(2)(iii) using an open flare shall install, calibrate, maintain, and operate according to the manufacturer's specifications the following equipment: (1) A heat sensing device, such as an ultraviolet beam sensor or thermocouple, at the pilot light or the flame itself to indicate the continuous presence of a flame. (2) A device that records flow to or bypass of the flare. The owner or operator shall either: (i) Install, calibrate, and maintain a gas flow rate measuring device that shall record the flow to the control device at least every 15 minutes; or (ii) Secure the bypass line valve in the closed position with a car-seal or a lock-and-key type configuration. A visual inspection of the seal or closure mechanism shall be performed at least once every month to ensure that the valve is maintained in the closed position and that the gas flow is not diverted through the bypass line. The above requirements applied to the candle flare (CD8). [40 CFR 60.756(c)(1)] and [40 CFR 60.756(c)(2)]	Monitored by gas flow rate instrument continuously recording the flow to the control device at least every 15 minutes; or by visual inspection of the seal or closure mechanism performed at least once every month to ensure that the valve is maintained in the closed position and that the gas flow is not diverted through the bypass line. [40 CFR 60.756(c)(2)(i)]	Recordkeeping by strip chart or data acquisition (DAS) system continuously. The owner or operator shall install and operate a strip chart of DAS within 180 days of the approval of the renewal (BOP080002) or manual logging of visual inspections each month during operation. [40 CFR 60.756(c)(2)]	Install equipment: Within 180 days from the date of the approved permit. [N.J.A.C. 7:27-22.16(o)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
66	<p>The owner or operator shall operate the collection system so that the methane concentration is less than 500 ppm above background at the surface of the landfill. To determine if this level is exceeded, the owner or operator shall conduct surface testing around the perimeter of the collection area and along a pattern that traverses the landfill at 30 meter intervals and where visual observations indicate elevated concentrations of landfill gas, such as distressed vegetation and cracks or seeps in the cover. A surface monitoring design plan shall be developed that includes a topographical map with the monitoring route and the rationale for any site-specific deviations from the 30 meter intervals. Areas with steep slopes or other dangerous areas may be excluded from the surface testing. Any reading of 500 ppm or more above background at any location shall be recorded as a monitored exceedance and the actions specified in (i) through (v) in the Submittal/Action Requirement shall be taken. As long as the specified actions are taken, the exceedance is not a violation of the operational requirements of 40 CFR 60.753(d). Any closed landfill that has no monitored exceedances of the operational standard in three consecutive quarterly monitoring periods may skip to annual monitoring. Any methane reading of 500 ppm or more above background detected during the annual monitoring returns the frequency for that landfill to quarterly monitoring. [40 CFR 60.753(d)] &amp; [40 CFR 755(c)(4)] &amp; [40 CFR 60.756(f)]</p>	<p>Other: The owner or operator shall monitor surface concentrations of methane along the entire perimeter of the collection area and along a pattern that traverses the landfill at 30 meter intervals (or a site-specific established spacing) for each collection area on a quarterly basis using an organic vapor analyzer, flame ionization detector, or other portable monitor meeting the specifications provided in 40 CFR 60.755(d). The background concentration shall be determined by moving the probe inlet upwind and downwind outside the boundary of the landfill at a distance of at least 30 meters from the perimeter wells. Surface emission monitoring shall be performed in accordance with section 4.3.1 of Method 21 of appendix A of 40 CFR 60, except that the probe inlet shall be placed within 5 to 10 centimeters of the ground. Monitoring shall be performed during typical meteorological conditions. The owner or operator shall implement a program to monitor for cover integrity and implement cover repairs as necessary on a monthly basis.[40 CFR 60.755(c)].</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system quarterly: once per quarter; quarters shall begin on January 1, April 1, July 1, and October 1 of each year. The owner or operator shall log the methane concentration in the collection system. [40 CFR 60.758(c)]</p>	<p>Comply with the requirement: As per the approved schedule.</p> <p>Any reading of 500 parts per million or more above background at any location shall be recorded as a monitored exceedance and the actions specified in 40 CFR 60.755 (c)(4) (i) through 40 CFR 60.755(v) of this section shall be taken. As long as the specified actions are taken, the exceedance is not a violation of the operational requirements of 40 CFR 60.753(d).</p> <p>(i) The location of each monitored exceedance shall be marked and the location recorded.</p> <p>(ii) Cover maintenance or adjustments to the vacuum of the adjacent wells to increase the gas collection in the vicinity of each exceedance shall be made and the location shall be re-monitored within 10 calendar days of detecting the exceedance.</p> <p>(iii) If the re-monitoring of the location shows a second exceedance, additional corrective action shall be taken and the location shall be monitored again within 10 days of the second exceedance. If the re-monitoring shows a third exceedance for the same location, the action specified in paragraph (v) of this section shall be taken, and no further monitoring of that location is required until the action specified in paragraph (v) has been taken. [40 CFR 60.755(c)(4)]</p>

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67	40 CFR 60.756(f) continued from above. [40 CFR 60.756(f)]	None.	None.	<p>. 40 CFR 60.755(c)(4) continued.</p> <p>(iv) Any location that initially showed an exceedance but has a methane concentration less than 500 ppm methane above background at the 10-day re-monitoring specified in paragraph (c)(4)(ii) or (iii) of this section shall be re-monitored 1 month from the initial exceedance. If the 1-month remonitoring shows a concentration less than 500 parts per million above background, no further monitoring of that location is required until the next quarterly monitoring period. If the 1-month remonitoring shows an exceedance, the actions specified in paragraph (c)(4)(iii) or (v) shall be taken.</p> <p>(v) For any location where monitored methane concentration equals or exceeds 500 parts per million above background three times within a quarterly period, a new well or other collection device shall be installed within 120 calendar days of the initial exceedance. An alternative remedy to the exceedance, such as upgrading the blower, header pipes or control device, and a corresponding timeline for installation may be submitted to the Administrator for approval.</p> <p>Comply with the requirement: As per the approved schedule. [40 CFR 60.755(c)(4)]</p>
68	Each owner or operator subject to the requirements of this subpart is exempted from the requirements of 40 CFR 60.757(b)(1) and (2), after the installation of a collection and control system in compliance with 40 CFR 60.752(b)(2), during such time as the collection and control system is in operation and in compliance with 40 CFR 60.753 and 40 CFR 60.755. [40 CFR 60.757(b)(3)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
69	Each owner or operator shall submit semiannual equipment removal report to the Administrator 30 days prior to removal or cessation of operation of the control equipment. [40 CFR 60.757(e)]	None.	None.	Submit a report: As per the approved schedule. The equipment removal report shall contain all of the following items: (i) A copy of the closure report submitted in accordance with 40 CFR 60.757(d); (ii) A copy of the initial performance test report demonstrating that the 15 year minimum control period has expired; and (iii) Dated copies of three successive NMOC emission rate reports demonstrating that the landfill is no longer producing 50 megagrams or greater of NMOC per year. [40 CFR 60.757(e)]
70	Each owner or operator shall submit semiannual reports to the Administrator. For enclosed combustion devices and flares, reportable exceedances are defined under 40 CFR 60.758(c). [40 CFR 60.757(f)]	None.	None.	Submit a report: As per the approved schedule. Submit a report every April 30 and October 31 for the preceding six months (the six month periods begin on April 1 and October 1). The semi-annual reports shall include the following recorded information: (1) Value and length of time for exceedance of applicable parameters monitored under 40 CFR 60.756(a), (b), (c), and (d). (2) Description and duration of all periods when the gas stream is diverted from the control device through a bypass line or the indication of bypass flow as specified under 40 CFR 60.756. (3) Description and duration of all periods when the control device was not operating for a period exceeding 1 hour and length of time the control device was not operating. (4) All periods when the collection system was not operating in excess of 5 days. (5) The location of each exceedance of the 500 parts per million methane concentration as provided in 40 CFR 60.753(d) and the concentration recorded at each location for which an exceedance was recorded in the previous month. (6) The date of installation and the location of each well or collection system expansion added pursuant to 40 CFR 60.755(a)(3), (b), and (c)(4). [40 CFR 60.757(f)]



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71	Each owner or operator shall keep for 5 years up-to-date, readily accessible continuous records of the equipment operating parameters specified to be monitored in 40 CFR 60.756 as well as up-to-date, readily accessible records for periods of operation during which the parameter boundaries established during the most recent performance test are exceeded. The following constitute exceedances that shall be recorded and reported under 40 CFR 60.757(f): (i) For enclosed combustors except for boilers and process heaters with design heat input capacity of 44 megawatts (150 million British thermal unit per hour) or greater, all 3-hour periods of operation during which the average combustion temperature was more than 28 deg C below the average combustion temperature during the most recent performance test at which compliance with 40 CFR 60.752(b)(2)(iii) was determined. [40 CFR 60.758(c)(1)(i)]	None.	Other: Maintain Readily Accessible Records.[40 CFR 60.758(c)(1)(i)].	None.
72	Each owner or operator shall keep up-to-date, readily accessible continuous records of the indication of flow to the control device or the indication of bypass flow or records of monthly inspections of car-seals or lock-and-key configurations used to seal bypass lines, specified under 40 CFR 60.756. [40 CFR 60.758(c)(2)]	None.	Other: Maintain Readily Accessible Records.[40 CFR 60.758(c)(2)].	None.

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73	Each owner or operator shall keep for the life of the collection system an up-to-date, readily accessible plot map showing each existing and planned collector in the system and providing a unique identification location label for each collector. (1) Each owner or operator shall keep up-to-date, readily accessible records of the installation date and location of all newly installed collectors as specified under 40 CFR 60.755(b). (2) Each owner or operator shall keep readily accessible documentation of the nature, date of deposition, amount, and location of asbestos-containing or nondegradable waste excluded from collection as provided in 40 CFR 60.759(a)(3)(i) as well as any nonproductive areas excluded from collection as provided in 40 CFR 60.759(a)(3)(ii). [40 CFR 60.758(d)]	None.	Other: Maintain Readily Accessible Records.[40 CFR 60.758(d)].	None.
74	Each owner or operator shall keep for at least 5 years up-to-date, readily accessible records of all collection and control system exceedances of the operational standards in 40 CFR 60.753, the reading in the subsequent month whether or not the second reading is an exceedance, and the location of each exceedance. [40 CFR 60.758(e)]	None.	Other: Maintain Readily Accessible Records.[40 CFR 60.758(e)].	None.
75	The owner or operator of a designated facility having a design capacity equal to or greater than 2.5 million megagrams and 2.5 million cubic meters must comply with the requirements of 40 CFR 60.752(b) in addition to the applicable reporting and recordkeeping requirements specified in this subpart. [40 CFR 62.14353(b)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
76	The owner or operator of a designated facility with a gas collection and control system used to comply with 40 CFR 62.14353(b) must comply with the operational standards in 40 CFR 60.753; the test procedures in 40 CFR 60.754(b) and (d); the compliance provisions in 40 CFR 60.755; and the monitoring provisions in 40 CFR 60.756. [40 CFR 62.14354(b)]	None.	None.	None.
77	The owner or operator of a designated facility must comply with the recordkeeping and reporting provisions listed in 40 CFR 60.757 and 40 CFR 60.758. [40 CFR 62.14355(a)]	None.	None.	None.
78	No owner or operator subject to the provisions of 40 CFR 63 must operate any affected source in violation of the requirements of 40 CFR 63. No owner or operator subject to the provisions of 40 CFR 63 shall fail to keep records, notify, report, or revise reports as required under 40 CFR 63. [40 CFR 63.4(a)]	None.	None.	None.
79	For equipment subject to MACT, no owner or operator subject to the provisions of MACT Subpart A in 40 CFR 63 shall build, erect, install, or use any article, machine, equipment, or process to conceal an emission that would otherwise constitute noncompliance with a relevant standard. Such concealment includes, but is not limited to: (1) The use of diluents to achieve compliance with a relevant standard based on the concentration of a pollutant in the effluent discharged to the atmosphere; and (2) the use of gaseous diluents to achieve compliance with a relevant standard for visible emissions. [40 CFR 63.4(b)]	None.	None.	None.

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80	The owner and operator must not use fragmentation or phasing of reconstruction activities (i.e., intentionally dividing reconstruction into multiple parts for purposes of avoiding new source requirements) to avoid becoming subject to new source requirements. [40 CFR 63.4(c)]	None.	None.	None.
81	The owner or operator must operate and maintain any affected source at all times, including periods of startup, shutdown, and malfunction, including associated APC equipment and monitoring equipment for minimizing emissions to the levels required by the relevant standards, i.e., meet the emission standard or comply with the startup, shutdown, and malfunction plan. [40 CFR 63.6(e)(1)(i)]	None.	None.	None.
82	For equipment subject to MACT, malfunctions shall be corrected as soon as practicable after their occurrence, in accordance with the startup, shutdown, and malfunction plan required under 40 CFR 63.6(e)(3). [40 CFR 63.6(e)(1)(ii)]	None.	None.	Comply with requirement: Upon occurrence of event. Correct the malfunction as soon as practicable in accordance with the startup, shutdown, and malfunction plan. [40 CFR 63.6(e)(1)(ii)]
83	The owner or operator of an affected source must develop and implement a written startup, shutdown and malfunction plan that describes, in detail, procedures for operating and maintaining the source during periods of startup, shutdown, and malfunction; a program of corrective action for malfunctioning process; and APC and monitoring equipment used to comply with relevant standard. The plan must be developed by the source's compliance date for that relevant standard. [40 CFR 63.6(e)(3)(i)]	None.	Other: The owner or operator must maintain at the affected source a current startup, shutdown, and malfunction plan and make the plan available upon request for inspection. In addition, the owner or operator must maintain each previous version of the plan for a period of 5 years after the revision of the plan.[40 CFR 63.6(e)(3)(v)].	None.

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<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
84	During periods of startup, shutdown, and malfunction, the owner or operator of an affected source must operate and maintain such source, including APC and monitoring equipment, in accordance with the procedures specified in the startup, shutdown and malfunction plan developed under paragraph 40 CFR 63.6(e)(3)(i). [40 CFR 63.6(e)(3)(ii)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
85	When actions taken by the owner or operator during a startup, shutdown, or malfunction (including actions taken to correct a malfunction) are consistent with the procedures specified in the affected source's startup, shutdown, and malfunction plan, the owner or operator must keep records for that event which demonstrate that the procedures specified in the plan were followed. These records may take the form of a "checklist," or other effective form of recordkeeping that confirms conformance with the startup, shutdown, and malfunction plan for that event. In addition, the owner or operator must keep records of these events as specified in 40 CFR 63.10(b), including records of the occurrence and duration of each startup, shutdown, or malfunction of operation and each malfunction of the air pollution control and monitoring equipment. Furthermore, the owner or operator shall confirm that actions taken during the relevant reporting period during periods of startup, shutdown, and malfunction were consistent with the affected source's startup, shutdown and malfunction plan in the semiannual (or more frequent) startup, shutdown, and malfunction report required in 40 CFR 63.10(d)(5). [40 CFR 63.6(e)(3)(iii)]	None.	Recordkeeping by manual logging of parameter upon occurrence of event. The owner or operator shall maintain relevant records for such source of: (i) The occurrence & duration of each startup, shutdown, or malfunction of operation (i.e., process equipment); (ii) The occurrence & duration of each malfunction of the required air pollution control (APC) and monitoring equipment; (iii) All required maintenance performed on the APC and monitoring equipment; (iv) Actions taken during periods of startup, shutdown, and malfunction (including corrective actions to restore malfunctioning process and APC and monitoring equipment to its normal or usual manner of operation) when such actions are different from the procedures specified in the affected source's startup, shutdown, and malfunction plan; (v) All information necessary to demonstrate conformance with the affected source's startup, shutdown, and malfunction plan when all actions taken during periods of startup, shutdown, and malfunction (including corrective actions to restore malfunctioning process and APC and monitoring equipment to its normal or usual manner of operation) are consistent with the procedures specified in such plan. (The information needed to demonstrate conformance with the startup, shutdown, and malfunction plan may be recorded using a "checklist," or some other effective form of recordkeeping, in order to minimize the recordkeeping burden for conforming events). [40 CFR 63.10(b)(2)]	Submit a report: As per the approved schedule (semiannually). The startup, shutdown, or malfunction report shall consist of a letter containing: name, title, and signature of the owner or operator and shall be submitted to the Administrator. The report shall be delivered by the 30th day following the end of each calendar half. Submit reports in April and October of each year. The report shall only be required if a startup, shutdown, or malfunction occurred during the reporting period and shall identify any instance where any action taken by an owner or operator during startup, shutdown, or malfunction (including actions taken to correct a malfunction) is not consistent with the affected source's startup, shutdown, or malfunction plan, but the source does not exceed any applicable emission limitation in the relevant emission standard. [40 CFR 63.10(d)(5)(i)]

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
86	If an action taken by the owner or operator during a startup, shutdown, or malfunction (including an action taken to correct a malfunction) is not consistent with the procedures specified in the affected source's startup, shutdown, and malfunction plan, and the source exceeds any applicable emission limitation in the relevant emission standard, then the owner or operator must record the actions taken for that event and must report such actions within 2 working days after commencing actions inconsistent with the plan, followed by a letter within 7 working days after the end of the event, in accordance with 40 CFR 63.10(d)(5) (unless the owner or operator makes alternative reporting arrangements, in advance, with the Administrator). [40 CFR 63.6(e)(3)(iv)]	None.	Recordkeeping by manual logging of parameter upon occurrence of event. The owner or operator shall maintain relevant records for such source of: (i) The occurrence & duration of each startup, shutdown, or malfunction of operation (i.e., process equipment); (ii) The occurrence & duration of each malfunction of the required air pollution control (APC) and monitoring equipment; (iii) All required maintenance performed on the APC and monitoring equipment; (iv) Actions taken during periods of startup, shutdown, and malfunction (including corrective actions to restore malfunctioning process and APC and monitoring equipment to its normal or usual manner of operation) when such actions are different from the procedures specified in the affected source's startup, shutdown, and malfunction plan; (v) All information necessary to demonstrate conformance with the affected source's startup, shutdown, and malfunction plan when all actions taken during periods of startup, shutdown, and malfunction (including corrective actions to restore malfunctioning process and APC and monitoring equipment to its normal or usual manner of operation) are consistent with the procedures specified in such plan. (The information needed to demonstrate conformance with the startup, shutdown, and malfunction plan may be recorded using a "checklist," or some other effective form of recordkeeping, in order to minimize the recordkeeping burden for conforming events). [40 CFR 63.10(b)(2)]	Submit a report: Upon occurrence of event. The report shall consist of a telephone call or facsimile and shall be submitted within 2 working days after commencing action, followed by a letter delivered or postmarked within 7 working days after the end of the event. [40 CFR 63.10(d)(5)(ii)]

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
87	If the startup, shutdown, and malfunction plan fails to address or inadequately addresses an event, the owner or operator of an affected source must revise the startup, shutdown, and malfunction plan of such a source within 45 days after the event. [40 CFR 63.6(e)(3)(viii)]	None.	None.	Submit a report: Upon occurrence of event. Each startup, shutdown, and malfunction plan revision must be reported in the semiannual report required by 40 CFR 63.10(d)(5). [40 CFR 63.6(e)(3)(viii)]
88	The nonopacity emission standards shall apply at all times except during periods of startup, shutdown, and malfunction. [40 CFR 63.6(f)(1)]	None.	None.	None.
89	Existing affected sources and area sources must comply with the requirements in 40 CFR 63.1955(b) and 40 CFR 63.1960 through 63.1980 by the date your landfill is required to install a collection and control system by 40 CFR 60.752(b)(2) of subpart WWW, the Federal plan, or EPA approved and effective State or tribal plan that applies to your landfill or by January 16, 2004, whichever occurs later. [40 CFR 63.1945(f)]	None.	None.	None.
90	Demonstrate compliance with the operating conditions for control systems including continuous parameter monitoring data collected pursuant to 40 CFR 60.756(b)(1) [40 CFR 63.1960]	Monitored by parametric monitoring system continuously. [40 CFR 63.1960]	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [40 CFR 63.1960]	Comply with requirement: As per the approved schedule. [40 CFR 63.1980]
91	The owner/operator must develop and implement a written startup, shutdown, and malfunction (SSM) plan according to the provisions in 40 CFR 63.6(e)(3). [40 CFR 63.1960]	None.	Other: Maintain a current copy of the Startup, Shutdown, and Malfunction Plan (SSM) on site. [40 CFR 63.1960] & [40 CFR 63.1980].	None.



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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
92	<p>For the purposes of the landfill monitoring and Startup, Shutdown, and Malfunction Plan (SSM) requirements, deviations (as defined in 40 CFR 63.1990) include the items in paragraphs (a) through (c) of this section.</p> <p>(a) A deviation occurs when the control device operating parameter boundaries described in 40 CFR 60.758(c)(1) of subpart WWW are exceeded.</p> <p>(b) A deviation occurs when 1 hour or more of the hours during the 3-hour block averaging period (refer to 40 CFR 63.1975) does not constitute a valid hour of data. A valid hour of data must have measured values for at least three 15-minute monitoring periods within the hour.</p> <p>(c) A deviation occurs when a SSM plan is not developed, implemented, or maintained on site. [40 CFR 63.1965]</p>	None.	None.	<p>Submit a report: Upon occurrence of event. The report shall consist of a telephone call or facsimile and shall be submitted within 2 working days after commencing action, followed by a letter delivered or postmarked within 7 working days after the end of the event. [40 CFR 63.10(d)(5)(ii)]</p>

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
93	Each owner or operator shall submit reports every 6 months to the Administrator. For enclosed combustion devices and flares, reportable exceedances are defined under 40 CFR 60.758(c). [40 CFR 60.757(f)] & [40 CFR 63.1980(a)]	None.	None.	Submit a report: As per the approved schedule. The biannual reports shall include the following recorded information: (1) Value and length of time for exceedance of applicable parameters monitored under 40 CFR 60.756(a), (b), (c), and (d). (2) Description and duration of all periods when the gas stream is diverted from the control device through a bypass line or the indication of bypass flow as specified under 40 CFR 60.756. (3) Description and duration of all periods when the control device was not operating for a period exceeding 1 hour and length of time the control device was not operating. (4) All periods when the collection system was not operating in excess of 5 days. (5) The location of each exceedance of the 500 parts per million methane concentration as provided in 40 CFR 60.753(d) and the concentration recorded at each location for which an exceedance was recorded in the previous month. (6) The date of installation and the location of each well or collection system expansion added pursuant to 40 CFR 60.755(a)(3), (b), and (c)(4). [40 CFR 60.757(f)] & [40 CFR 63.1980(a)]

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**New Jersey Department of Environmental Protection**  
**Facility Specific Requirements**

**Emission Unit:** U1 Landfill Areas (1 and 2), Three Flares (CD1, CD3 & CD8)

**Operating Scenario:** OS1 Landfill Areas (1 and 2), Two Flares (CD1, CD3 and CD8)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 2.9 lb/hr. Maximum hourly emission rate, based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	PM-10 (Total) <= 2.9 lb/hr. Maximum hourly emission rate, based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	VOC (Total) <= 4.24 lb/hr. Maximum hourly emission rate, based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	NOx (Total) <= 8.75 lb/hr. Maximum hourly emission rate, based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	CO <= 29.2 lb/hr. Maximum hourly emission rate, based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	SO2 <= 3.37 lb/hr. Maximum hourly emission rate, based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	Methane <= 914.15 lb/hr Maximum Hourly Source fugitive emissions. Based on operating permit application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Benzene <= 0.077 lb/hr. Maximum hourly emission rate, based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U1 Landfill Areas (1 and 2), Three Flares (CD1, CD3 & CD8)

**Operating Scenario:** OS2 Landfill Gas Collection and Control System

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Flowrate <= 4,800 SCFM. Maximum flow from Gas Collection and Control System submittal to the EPA. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Vaccum <= -65 inches w.c. from Gas Collection and Control Submittal to the EPA. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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**New Jersey Department of Environmental Protection**  
**Facility Specific Requirements**

Emission Unit: U2 Greenhouse Boiler

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No Visible Emissions: No visible emissions, except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] and [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	Particulate Emissions <= 2.83 lb/hr Maximum emission limit, based on heat input rate. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	NOx (Total) <= 1.6 tons/yr. Maximum emission rate, based on preconstruction permit. The annual operating hours shall not exceed 4,380 hours. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	CO <= 0.85 tons/yr. Maximum emission rate, based on preconstruction permit. The annual operating hours shall not exceed 4,380 hours. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	SO2 <= 0.139 tons/yr. Maximum emission rate, based on preconstruction permit. The annual operating hours shall not exceed 4,380 hours. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	TSP < 0.05 lb/hr. Maximum emission rate from preconstruction permit for each fuel combusted. Applies to OS1, OS2 and OS3. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	NOx (Total) <= 0.73 lb/hr. Maximum emission rate from preconstruction permit for each fuel combusted. Applies to OS1, OS2 and OS3. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	Maximum Gross Heat Input <= 4.72 MMBTU/hr (LHV). Maximum heat input from preconstruction permit (Fuel Burner Rated Capacity). [N.J.A.C. 7:27-22.16(e)]	Other: Fuel Burner Rated Capacity.[N.J.A.C. 7:27-22.16(o)].	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	Natural Gas Usage <= 20.3 MMft <sup>3</sup> /yr. Maximum Natural Gas usage for OS1. Based on preconstruction permit and 4380 annual operating hours. [N.J.A.C. 7:27-22.16(e)]	Natural Gas Usage: Monitored by fuel usage totalizing meter continuously. [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. The owner or operator shall record the annual fuel usage. [N.J.A.C. 7:27-22.16(o)]	None.
10	Other Gaseous Fuel Usage <= 37.6 MMft <sup>3</sup> /yr. Maximum landfill gas usage, based on preconstruction permit application.. Landfill gas usage is the main source of combustion energy for OS2. [N.J.A.C. 7:27-22.16(e)]	Other Gaseous Fuel Usage: Monitored by fuel usage totalizing meter continuously. [N.J.A.C. 7:27-22.16(o)]	Other Gaseous Fuel Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. The owner or operator shall record the annual fuel usage. [N.J.A.C. 7:27-22.16(o)]	None.
11	Propane <= 228,438 gal/yr. Maximum Amount of propane usage for OS3, based on preconstruction permit application. [N.J.A.C. 7:27-22.16(e)]	Propane: Monitored by fuel usage totalizing meter continuously. [N.J.A.C. 7:27-22.16(o)]	Propane: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. The owner or operator shall record the annual fuel usage. [N.J.A.C. 7:27-22.16(o)]	None.

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**New Jersey Department of Environmental Protection**  
**Facility Specific Requirements**

**Emission Unit:** U4 Caterpillar Internal Combustion Engine on Tub Grinder

**Operating Scenario:** OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	<p>Conduct a comprehensive stack test at emission point PT6 at least 18 months prior to the expiration of the approved operating permit to demonstrate compliance with the CO and NOx emission limits. Test shall be conducted while operating at maximum capacity.</p> <p>Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Monitored by stack emission testing prior to permit renewal, based on the average of three 1-hour tests. Unless otherwise approved in the stack test protocol or by the Department, each test run shall be 60 minutes in sampling duration. Stack test shall be conducted for CO and NOx emissions. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Recordkeeping by stack test results prior to permit renewal. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule Stack Test - Submit a protocol, conduct test, submit results: As per the approved schedule. Submit a stack test protocol to the Bureau of Technical Services (BTS) at PO Box 437, Trenton, NJ 08625 at least 30 months prior to the expiration of the approved operating permit.</p> <p>Within 30 days of protocol approval, the permittee must contact BTS at 609-530-4041 to schedule a mutually acceptable test date. A full stack test report must be submitted to BTS and a certified summary test report, as described in the protocol, must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist.</p> <p>A copy of the certified summary test results must be submitted with the operating permit renewal application due at least 12 months prior to expiration of the Operating Permit. [N.J.A.C. 7:27-22.18(e)] and. [N.J.A.C. 7:27-22.18(h)]</p>
2	<p>VOC (Total) &lt;= 0.16 tons/yr. Maximum annual emissions applies to OS1 only. Based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]</p>	None.	None.	None.
3	<p>NOx (Total) &lt;= 4.94 tons/yr. Maximum annual emissions applies to OS1 only. Based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]</p>	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	CO <= 1.56 tons/yr. Maximum annual emissions applies to OS1 only. Based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	SO2 <= 0.37 tons/yr. Maximum annual emissions applies to OS1 only. Based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	TSP <= 0.47 tons/yr. Maximum annual emission applies to OS1, OS2 and OS3 combined. Based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	PM-10 (Total) <= 0.39 tons/yr. Maximum annual emission applies to OS1, OS2 and OS3 combined. Based on preconstruction permit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Material processed limited to 100% wood, applies to OS2 and OS3. Based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Other: Review of production records.[N.J.A.C. 7:27-22.16(o)].	Other: Production records.[N.J.A.C. 7:27-22.16(o)].	None.



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**Facility Specific Requirements**

**Emission Unit:** U4 Caterpillar Internal Combustion Engine on Tub Grinder

**Operating Scenario:** OS1 Diesel Fuel Internal Combustion Engine

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 %. Exclusive of visible condensed water, for a period of more than 10 consecutive seconds. [N.J.A.C. 7:27-3.5]	Opacity: Monitored by visual determination each month during operation, based on an instantaneous determination. For compliance with the opacity standard, the permittee shall conduct visual opacity inspections during daylight hours. Visual inspections shall consist of a visual survey to identify if the stack has visible emissions, (other than condensed water vapor), greater than the prescribed standard. If visible emissions are observed, the permittee shall do the following: (1) Verify that the equipment and/or control device causing the emission is operating according to manufactures specifications and the operating permit compliance plan. If the equipment or control device is not operating properly, the permittee shall take corrective action immediately to eliminate the excess emissions. The permittee must report any permit violations to NJDEP pursuant to N.J.A.C. 7:27-22.19. (2) If the corrective action taken in step (1) does not correct the opacity problem within 24 hours, the applicant shall perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2. Such test shall be conducted each day until corrective action is taken to successfully correct the opacity problem. [N.J.A.C. 7:27-22.16(o)]	Other: The owner or operator shall manually or electronically log in a logbook or electronically (computer, DAS or electronic operating system) each month and retain the following records: (1) Date and time of inspection; (2) Emission Point number; (3) Operational status of equipment; (4) Observed results and conclusions; (5) Description of corrective action taken if needed; (6) Date and time opacity problem was solved, if applicable; (7) N.J.A.C. 7:27B-2 results if conducted; and (8) Name of person(s) conducting inspection.[N.J.A.C. 7:27-22.16(o)].	None.
2	Particulate Emissions <= 3.9 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	Sulfur Content in Fuel <= 0.2 weight %. [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records once per bulk fuel shipment showing sulfur content. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading once per bulk fuel shipment showing sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	CO <= 500 ppmvd @ 15% O <sub>2</sub> . Maximum allowable emission limit. [N.J.A.C. 7:27-16.10(b)]	CO: Monitored by stack emission testing prior to permit renewal, based on the average of three 1-hour tests. See stack details elsewhere in the OS Summary. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results prior to permit renewal. See stack details elsewhere in the OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack details elsewhere in the OS Summary. [N.J.A.C. 7:27-22.16(o)]
5	CO <= 500 ppmvd @ 15% O <sub>2</sub> . Maximum allowable emission limit. [N.J.A.C. 7:27-16.10(b)]	<p>CO: Monitored by periodic emission monitoring annually. The periodic monitoring procedure shall be carried out in accordance with the procedure specified in the latest version of the Department's technical manual TM1005 at the same time that the NO<sub>x</sub> is being monitored.</p> <p>If the PMP test result exceeds the permit limit, the permittee shall do the following:</p> <p>(1) Verify that the equipment and/or control device is operating according to manufacturer's specifications and the operating permit compliance plan. If the equipment or control device is not operating properly, the permittee shall take corrective action immediately to eliminate the excess emissions.</p> <p>(2) If the corrective action taken in step (1) does not correct the problem within 24 hours, the applicant shall perform a repeat the PMP test. Such test shall be conducted each day until corrective action is taken to successfully correct the problem. [N.J.A.C. 7:27-22.16(o)]</p>	<p>CO: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. The owner or operator shall record and retain the following records:</p> <p>(1) Date and time of PMP;</p> <p>(2) PMP results and calculations in accordance with the procedure specified in the latest version of EPA CTM-034. PMP results must be recorded in the same units as permit limits;</p> <p>(3) Description of corrective action taken if needed;</p> <p>(4) Date and time of corrective action taken, if applicable. [N.J.A.C. 7:27-22.16(o)]</p>	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	The owner or operator shall adjust the combustion process in accordance with the procedure set forth at N.J.A.C. 7:27-19.16 and according to manufacturer's recommended maintenance schedules. [N.J.A.C. 7:27-16.10(e)2]	Other: The owner or operator shall adjust the combustion process according to manufacturer's recommended maintenance procedures and schedules [N.J.A.C. 7:27-19.16(g)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Such record shall contain the following information for each adjustment:  1. The date of the adjustment and the times at which it began and ended; 2. The name, title, and affiliation of the person who performed the procedure and adjustment; 3. The type of procedure and maintenance performed; 4. The concentrations of NOx, CO and O2, measured before and after the adjustment was made; and 5. The type and amount of fuel use over the 12 months prior to the adjustment. [N.J.A.C. 7:27-19.16(h)]	None.
7	VOC (Total) <= 0.58 lb/hr. Based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	NOx (Total) <= 17.5 lb/hr. Based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Monitored by stack emission testing prior to permit renewal, based on each of three Department validated stack test runs. See stack test details elsewhere in the OS Summary. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results upon occurrence of event. See stack test details elsewhere in the OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test details elsewhere in the OS Summary. [N.J.A.C. 7:27-22.16(o)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	NO <sub>x</sub> (Total) ≤ 17.5 lb/hr. Maximum allowable emission limit from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	<p>NO<sub>x</sub> (Total): Monitored by periodic emission monitoring annually. The periodic monitoring procedure shall be carried out in accordance with the procedure specified in the latest version of Department's technical manual TM1005 at the same time that the CO is being monitored.</p> <p>If the PMP test result exceeds the permit limit, the permittee shall do the following:</p> <p>(1) Verify that the equipment and/or control device is operating according to manufacturer's specifications and the operating permit compliance plan. If the equipment or control device is not operating properly, the permittee shall take corrective action immediately to eliminate the excess emissions.</p> <p>(2) If the corrective action taken in step (1) does not correct the problem within 24 hours, the applicant shall perform a repeat the PMP test. Such test shall be conducted each day until corrective action is taken to successfully correct the problem. [N.J.A.C. 7:27-22.16(o)]</p>	<p>NO<sub>x</sub> (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system annually. The owner or operator shall record and retain the following records:</p> <p>(1) Date and time of PMP;</p> <p>(2) PMP results and calculations in accordance with the procedure specified in the latest version of EPA CTM-034. PMP results must be recorded in the same units as permit limits;</p> <p>(3) Description of corrective action taken if needed;</p> <p>(4) Date and time of corrective action taken, if applicable. [N.J.A.C. 7:27-22.16(o)]</p>	None.
10	CO ≤ 5.52 lb/hr. Based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by stack emission testing prior to permit renewal, based on each of three Department validated stack test runs. See stack test details elsewhere in the OS Summary. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results upon occurrence of event. See stack test details elsewhere in the OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test details elsewhere in the OS Summary. [N.J.A.C. 7:27-22.16(o)]
11	SO <sub>2</sub> ≤ 1.31 lb/hr. Based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
12	TSP ≤ 0.65 lb/hr. Based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
13	PM-10 (Total) ≤ 0.37 lb/hr. Based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	Diesel Usage <= 26,900 gal/yr. Maximum annual fuel usage based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Diesel Usage: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)]	Diesel Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system per delivery. The owner or operator shall record the gallons of fuel delivered. [N.J.A.C. 7:27-22.16(o)]	None.
15	Maximum Gross Heat Input <= 6.5 MMBTU/hr (HHV). Based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Other: Fuel Burner Rated Capacity.[N.J.A.C. 7:27-22.16(o)].	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U4 Caterpillar Internal Combustion Engine on Tub Grinder

**Operating Scenario:** OS2 Hammermill Pulverizes Woodwaste

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	PM-10 (Total) <= 0.5 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	TSP <= 0.5 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Total Production Rate <= 100,000 lb/hr. Maximum hourly process rate, based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Other: Monitored by scale once per batch.[N.J.A.C. 7:27-22.16(o)].	Total Production Rate: Recordkeeping by manual logging of parameter daily during operation. [N.J.A.C. 7:27-22.16(o)]	None.
4	Total Material Transferred <= 49,150 tons/yr. Maximum annual material transfer, based on preconstruction permit and limited to 983 annual operating hours. [N.J.A.C. 7:27-22.16(o)]	Other: Monitored by scale once per batch.[N.J.A.C. 7:27-22.16(o)].	Total Material Transferred: Recordkeeping by manual logging of parameter each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U4 Caterpillar Internal Combustion Engine on Tub Grinder

**Operating Scenario:** OS3 Stack Conveyor - Transfer woodchips from the Tub Grinder to Trucks

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	PM-10 (Total) <= 0.5 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	TSP <= 0.5 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Total Production Rate <= 100,000 lb/hr. Maximum hourly process rate, based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Other: Monitored by scale once per batch.[N.J.A.C. 7:27-22.16(o)].	Total Production Rate: Recordkeeping by manual logging of parameter daily during operation. [N.J.A.C. 7:27-22.16(o)]	None.
4	Total Material Transferred <= 49,150 tons/yr. Maximum annual material transfer, based on preconstruction permi. [N.J.A.C. 7:27-22.16(e)]	Other: Monitored by scale once per batch.[N.J.A.C. 7:27-22.16(o)].	Total Material Transferred: Recordkeeping by manual logging of parameter each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.

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**New Jersey Department of Environmental Protection**  
**Facility Specific Requirements**

**Emission Unit:** U7 Kohler Emergency Generator with (ICE)

**Operating Scenario:** OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % exclusive of visible condensed water, for a period of more than 10 consecutive seconds. [N.J.A.C. 7:27-3.5]	None.	None.	None.
2	Particulate Emissions <= 1.49 lb/hr. Based on 2.48 MMBTU/hr generator's heat input rate. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	Sulfur Content in Fuel <= 0.3 % sulfur by weight for fuels less than 45 SSU and lighter, including gases, and <=0.3% by weight for fuels greater than 45 SSU but less than 145 SSU. Classification of fuels by SSU viscosity and 100F for Zone 3. Based on the Preconstruction permit. Maximum allowable sulfur content in diesel fuel. [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by fuel sampling (e.g. oil) per delivery. Permittee shall review the certificate of analysis from the oil distributor for fuel oil sulfur content. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by fuel certification receipts per delivery. (Zone 3) applies to Burlington County Resource Recovery Complex. [N.J.A.C. 7:27-22.16(o)]	None.
4	Opacity <= 10 % Smoke emissions no greater than 10% opacity, exclusive of visible condensed water vapor. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	VOC (Total) <= 0.22 tons/yr. Based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	NOx (Total) <= 2.74 tons/yr. Based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	CO <= 0.59 tons/yr. Based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	SO2 <= 0.18 tons/yr. Based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
9	TSP <= 0.19 tons/yr. Based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.



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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	PM-10 (Total) <= 0.15 tons/yr. based on operating permit application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	Maximum Gross Heat Input <= 2.48 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)]	Other: Fuel Burner Rated Capacity.[N.J.A.C. 7:27-22.16(o)].	None.	None.
12	Diesel fuel: Limited to diesel fuel, based on preconstruction permit application.. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
13	<p>The emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. This emergency generator shall be operated only:</p> <ol style="list-style-type: none"> <li>1. During the performance of normal testing and maintenance procedures, as recommended in writing by the manufacturer and/or as required in writing by a Federal or State law or regulation,</li> <li>2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or</li> <li>3. When there is a voltage reduction issued by PJM and posted on the PJM internet website (www.pjm.com) under the "emergency procedures" menu. [N.J.A.C. 7:27-19.1]</li> </ol>	Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. The owner or operator shall maintain on site and record in a logbook or computer data system, the following information:</p> <ol style="list-style-type: none"> <li>1. Once per month, the total operating time from the generator's hour meter;</li> <li>2. For each time the emergency generator is specifically operated for testing or maintenance: <ol style="list-style-type: none"> <li>i. The reason for its operation;</li> <li>ii. The date(s) of operation and the start up and shut down time;</li> <li>iii. The total operating time for testing or maintenance based on the generator's hour meter; and</li> <li>iv. The name of the operator; and</li> </ol> </li> <li>3. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction.</li> </ol> <p>The owner or operator of an emergency generator shall maintain the above records for a period of no less than five years after the record was made and shall make the records available to the Department and the EPA upon request. [N.J.A.C. 7:27-19.11(a)] and. [N.J.A.C. 7:27-19.11(b)]</p>	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	<p>This emergency generator shall not be used:</p> <p>1. For normal testing and maintenance on days when the Department forecasts air quality anywhere in New Jersey to be "unhealthy for sensitive groups," "unhealthy," or "very unhealthy" as defined in the EPA's Air Quality Index at <a href="http://airnow.gov/">http://airnow.gov/</a>, as supplemented or amended and incorporated herein by reference, unless required in writing by a Federal or State law or regulation. Procedures for determining the air quality forecasts for New Jersey are available at the Department's air quality permitting web site at <a href="http://www.state.nj.us/dep/aqpp/aqforecast">http://www.state.nj.us/dep/aqpp/aqforecast</a>; and</p> <p>2. As a source of energy or power after the primary energy or power source has become operable again. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source. [N.J.A.C. 7:27-19.2(d)]</p>	None.	None.	None.
15	<p>The Permittee shall, once per month, record the total operating time from each generator's hour meter. [N.J.A.C. 7:27-19.11]</p>	<p>Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The owner or operator shall maintain on site the total operating time from the generator's hour meter. [N.J.A.C. 7:27-19.11]</p>	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	<p>Hours of Operation &lt;= 500 hr/yr. The owner or operator shall comply with the above hour per year limit. This emergency generator shall be operated only:</p> <p>1. During the performance of normal testing and maintenance procedures, as recommended in writing by the manufacturer and/or as required in writing by a Federal or State law or regulation,</p> <p>2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or</p> <p>3. When there is a voltage reduction issued by PJM and posted on the PJM internet website (<a href="http://www.pjm.com">www.pjm.com</a>) under the "emergency procedures" menu. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Hours of Operation: Monitored by hour/time monitor continuously. The owner or operator shall install, operate and maintain a non-resettable hour meter prior to startup of the engine in accordance with the manufacturer's specifications. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The owner or operator shall maintain on site the total operating time from the generator's hour meter. [N.J.A.C. 7:27-22.16(o)]</p>	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Emission Unit: U8 Co-composting facility

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) $\leq$ 7.5 lb/hr based on 15% by weight of process emissions. Maximum allowable emission rate as determined from Tables 16A and 16B, based on VOC vapor pressure and percent VOC in source gas. [C.7:27-16.16(c)] & [N.J.A.C. 7:27-16.16(d)]	Other: Monitored by calculations and/or analysis of the source operations for process in which the source operation is used.[N.J.A.C. 7:27-22.16(o)].	Other: The owner or operator shall maintain records for each different kind of batch or continuous process for which the source operation is used. The following shall be recorded with the information determined in accordance with the Procedure for Using Table 16A: 1. The chemical name and vapor pressure of each VOC used. 2. The percent concentration by volume of VOC in the source gas 3. The volumetric gas flow rate 4. The source gas range classification 5. The maximum allowable emission rate 6. The maximum actual emission rate. 7. Maintain any calculation and test data used to determine the actual emission rate. 8. If the source operation is used for more than one process, the dates the source operation is used for each process. or Conduct an analysis of the source operation, which demonstrates that, under operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with this section; and maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under operating conditions. Maintain the required records for a period of no less than five years and make those records available upon the request of the Department or EPA, or any duly authorized representative of the department or EPA. [N.J.A.C. 7:27-16.16(g)1] & [N.J.A.C. 7:27-16.22(a)].	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
2	VOC (Total) <= 22 tons/yr. Maximum annual emissions, based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	NOx (Total) <= 0.348 tons/yr. Maximum annual emissions, based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	CO <= 0.048 tons/yr. Maximum annual emissions, based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	SO2 <= 4.12 tons/yr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	Dilution Threshold Limit: The D/T shall be the average of the D/T's of the two biofilters. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	<p>Odor &lt;= 5 D/T at nearest receptor. In case of a verified odor complaint the permittee shall evaluate the biofilter operating parameters, take corrective action on an expedited basis, and then conduct odor testing within 60 days of written notification from the Department of a verified odor complaint to confirm that the odor potential is still within the range of the initial tests (80-280 D/T).</p> <p>The D/T shall be reevaluated and revised by the Department every five (5) years if neighbors are closer to the facility than the nearest receptor used in the evaluation of the D/T indicated in this permit.</p> <p>To avoid odor exceeding the range (80-280 D/T) from the media or biofilters, the plant shall replace the biofilters every 24 months to help ensure minimal odors. Based on Minor Modification Application BOP120002. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Odor: Monitored by odor threshold monitoring upon request of the Department. The Permittee shall use a protocol approved by BTS.</p> <p>In case of a verified odor complaint, the permittee shall evaluate the biofilter operating parameters, take corrective action on an expedited basis, and then conduct odor testing within 60 days of written notification from the Department of a verified odor complaint to confirm that the odor potential is still within the range of the initial tests (80-280 D/T).</p> <p>To avoid odor exceeding the range (80-280 D/T) from the media or biofilters, the plant shall replace the biofilters every 24 months to help ensure minimal odors.</p> <p>The D/T shall be reevaluated and revised by the Department every five (5) years if neighbors are closer to the facility than the nearest receptor used in the evaluation of the D/T indicated in this permit. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Odor: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Keep results of all odor tests and records of biofilters media replacement. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Submit a report: Within 60 days of sampling to the Central Regional Office for review. [N.J.A.C. 7:27-22.16(a)]</p>

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	Total Pathogens: The ambient air monitoring study includes collection, analyses, and reporting of air concentrations of <i>Aspergillus Fumigatus</i> at, and in the vicinity of, the co-composting facility. The permittee shall not cause an increase in total pathogens emissions above the levels measured during initial testing. [N.J.A.C. 7:27-22.16(e)]	Total Pathogens: Monitored by ambient pathogens monitoring upon request of the Department, based on an instantaneous determination. The ambient air monitoring study includes collection of samples twice a week, on different days of the week including weekends and at different times of the day and night. [N.J.A.C. 7:27-22.16(e)]	Total Pathogens: Recordkeeping by certified lab analysis results upon request of the Department. [N.J.A.C. 7:27-22.16(e)]	None.
9	No visible emissions except for 3 minutes in any consecutive 30 minute period. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	Maximum Waste Feed Rate $\leq$ 84 dry tons/day (at 30% solids). Each delivery of sludge shall be sampled and the sludge solid content determined. [N.J.A.C. 7:27-22.16(e)]	Maximum Waste Feed Rate: Monitored by gravimetric monitoring daily, based on a 1 month average. [N.J.A.C. 7:27-22.16(e)]	Maximum Waste Feed Rate: Recordkeeping by manual logging of parameter once per calendar day during operation. The Permittee shall record the date, the tonnage in wet tons, the percent moisture and the tonnage in dry tons for each delivery. [N.J.A.C. 7:27-22.16(e)]	None.
11	Maximum Waste Feed Rate $\leq$ 30,660 tons/yr (at 30% solids). Each delivery of sludge shall be sampled and the sludge solid content determined. [N.J.A.C. 7:27-22.16(a)]	Maximum Waste Feed Rate: Monitored by gravimetric monitoring daily, based on a monthly volume-weighted average. [N.J.A.C. 7:27-22.16(o)]	Maximum Waste Feed Rate: Recordkeeping by manual logging of parameter each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
12	The biofilter shall be operated at all times that materials are being processed in the Main Processing Building. The Main Processing Building (which consists of the Receiving Area, the Compost Processing Area and the Curing Area) shall be totally enclosed. A negative pressure shall be maintained in each area in the Main Processing Building to prevent potential fugitive emissions. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	If requested by the Department, and based on the detection and verification of odors emanating from the product storage area at the nearest offsite receptor, or based on the detection of other air contaminant emissions from this area, the Permittee shall control emissions from the product storage piles. Control measures may include, but are not limited to, covering or enclosing the storage piles and venting all air emissions to a properly designed control device. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
14	In the case where all cells of the biofilter fail to operate and the Permittee fails to correct the problem within one (1) week, the Permittee shall take the following steps: a) remove readily identifiable odorous materials; b) remove all existing precompost feed stock to be disposed of through an alternative method; c) remove the active compost piles to be disposed of through an alternative method. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
15	Exceedance of any biofilter operating parameter shall be immediately investigated and corrected. Corrective actions shall involve partial or total replacement of biofilter media, pH and/or moisture adjustment of the media, or other action which would result in the proper operation of the biofilter. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
16	The odor testing program shall be conducted in accordance with sampling methodologies approved by BTS. Analyses of odor samples shall be performed in accordance with ASTM E679-91 (odor panel). All testing shall be conducted using methods approved by BTS. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	Minimum VOC Destruction and Removal Efficiency $\geq 90\%$ This requirement shall apply to both biofilters (CD4). Based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.



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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Emission Unit: U8 Co-composting facility

Operating Scenario: OS1 Co-Composting Facility

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) $\leq$ 5 lb/hr Maximum hourly emissions, based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	Sulfur, Total Reduced $\leq$ 0.94 lb/hr. [N.J.A.C. 7:27-22.16(e)]	Sulfur, Total Reduced: Monitored by periodic emission monitoring upon request of the Department, based on each of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Sulfur, Total Reduced: Recordkeeping by manual logging of parameter or storing data in a computer data system upon request of the Department. [N.J.A.C. 7:27-22.16(o)]	Not Applicable.
3	Bed Operating Temperature $\geq$ 50 and Bed Operating Temperature $\leq$ 120 degrees F. [N.J.A.C. 7:27-22.16(e)]	Bed Operating Temperature: Monitored by temperature instrument each week during operation, based on an instantaneous determination. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Bed Operating Temperature: Recordkeeping by manual logging of parameter or storing data in a computer data system each week during operation. [N.J.A.C. 7:27-22.16(o)]	None.
4	Bed Operating pH $\geq$ 5 and Bed Operating pH $\leq$ 9 standard units. [N.J.A.C. 7:27-22.16(e)]	Bed Operating pH: Monitored by pH instrument once every 2 weeks, based on an instantaneous determination. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Bed Operating pH: Recordkeeping by manual logging of parameter or storing data in a computer data system once every 2 weeks. [N.J.A.C. 7:27-22.16(o)]	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	Pressure Drop $\geq 2$ and Pressure Drop $\leq 14$ inches w.c.. [N.J.A.C. 7:27-22.16(e)]	Pressure Drop: Monitored by pressure drop instrument each week during operation, based on an instantaneous determination. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop: Recordkeeping by manual logging of parameter or storing data in a computer data system each week during operation. [N.J.A.C. 7:27-22.16(o)]	None.
6	Bed Moisture $\geq 40$ and Bed Moisture $\leq 80$ %. [N.J.A.C. 7:27-22.16(e)]	Bed Moisture: Monitored by grab sampling each week during operation, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	Bed Moisture: Recordkeeping by manual logging of parameter or storing data in a computer data system each week during operation. [N.J.A.C. 7:27-22.16(o)]	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U8 Co-composting facility

**Operating Scenario:** OS3 Co-Composting Facility Heater No. 3, OS4 Co-Composting Facility Heater No. 4

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions $\leq$ 7.83 lb/hr. Maximum allowable particulate emission rate based 0.02 grains per standard cubic foot of source gas emitted. [N.J.A.C. 7:27-6.2(a)]	None.	None.	None.
2	Opacity $\leq$ 20 %. Opacity greater than 20%, exclusive of visible condensed water vapor, shall not exceed a period of three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] & [N.J.A.C. 7:27-6.2(e)]	None.	None.	None.
3	VOC (Total) $\leq$ 0.05 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	NOx (Total) $\leq$ 0.696 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	CO $\leq$ 0.094 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	TSP $\leq$ 0.05 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
7	Fuel Usage is limited to Liquid Propane (LPG). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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**New Jersey Department of Environmental Protection**  
**Facility Specific Requirements**

Emission Unit: U9 Dust - Powdered Activated Carbon Silo

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 0.5 lb/hr. Particulate emission limit based on 99% efficiency of collection. [N.J.A.C. 7:27-6.2(a)]	None.	None.	None.
2	Opacity <= 20 %. Opacity greater than 20%, exclusive of visible condensed water vapor, shall not exceed a period of three minutes in any consecutive 30-minute period. [N.J.A.C.7:27-6.2(d)] & [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
3	TSP <= 0.0004 tons/yr. Maximum annual emissions, based on preconstruction permit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	PM-10 (Total) <= 0.0004 tons/yr. Maximum annual emissions, based on preconstruction permit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Powder Activated Carbon: Limited to virgin Powdered Activated Carbon. Based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Other: Production records.[N.J.A.C. 7:27-22.16(o)].	Other: Production records.[N.J.A.C. 7:27-22.16(o)].	None.
6	Hours of Operation <= 6 hr/yr. Loading time, based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Hours of Operation: Monitored by hour/time monitor once per calendar day during operation. [N.J.A.C. 7:27-22.16(o)]	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system once per calendar day during operation. [N.J.A.C. 7:27-22.16(o)]	None.
7	Total Material Transferred <= 42,120 lb/yr. Maximum annual material transfer based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Total Material Transferred: Monitored by material feed/flow monitoring continuously. [N.J.A.C. 7:27-22.16(o)]	Total Material Transferred: Recordkeeping by manual logging of parameter each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
8	Pressure Drop Across the Baghouse >= 4 and Pressure Drop Across the Baghouse <= 17 inches w.c.. Based on operating permit application. [N.J.A.C. 7:27-22.16(e)]	Pressure Drop Across the Baghouse: Monitored by pressure measurement device continuously, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop Across the Baghouse: Recordkeeping by strip chart or data acquisition (DAS) system continuously. [N.J.A.C. 7:27-22.16(o)]	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	Inlet Temperature to Baghouse $\geq 34$ degrees F. Based on operating permit application. [N.J.A.C. 7:27-22.16(e)]	Inlet Temperature to Baghouse: Monitored by temperature instrument continuously, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	Inlet Temperature to Baghouse: Recordkeeping by strip chart or data acquisition (DAS) system continuously. [N.J.A.C. 7:27-22.16(o)]	None.
10	Particulates Control Efficiency $\geq 98$ %. Based on operating permit application. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
11	Air-to-Cloth Ratio $\leq 2.22$ ACFM/sq.ft.. Based on operating permit application. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
12	Particulate Removal Efficiency: The bags are pleated filters cleaned automatically by air pulses in response to buildup of filtered material. The bags are replaced when the air pulses no longer reduce the buildup below the maximum allowable thickness. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
13	The permittee shall conduct bag cleaning and replacement on a schedule necessary to achieve the required particulate removal efficiency as specified by the manufacturer. [N.J.A.C. 7:27-22.16(e)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The permittee shall record each instance of bag cleaning and bag replacement. [N.J.A.C. 7:27-22.16(o)]	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U9 Dust - Powdered Activated Carbon Silo

**Operating Scenario:** OS1 Dust-Powdered Activated Carbon Silo

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 0.125 lb/hr. Maximum hourly emissions, based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	PM-10 (Total) <= 0.125 lb/hr. Maximum hourly emissions, based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Total Production Rate <= 7,000 lb/hr Based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Total Production Rate: Monitored by material feed/flow monitoring continuously. [N.J.A.C. 7:27-22.16(o)]	Total Production Rate: Recordkeeping by manual logging of parameter each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U11 Leachate Treatment System**Operating Scenario:** OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No Visible Emissions: Equipment shall not be used in a manner which will cause visible emissions, exclusive of visible condensed water vapor, except for three minutes in any consecutive thirty minute period. Based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	VOC (Total) <= 2.63 tons/yr. Maximum annual emissions. Based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Hydrogen sulfide <= 0.132 tons/yr. Maximum emission rate, based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	VOC (Total) <= 3.5 lb/hr. Maximum allowable emission rate as determined from Tables 16A and 16B, based on VOC vapor pressure and percent VOC in source gas (Range A). For each source. [N.J.A.C. 7:27-16.16(c)] &. [N.J.A.C. 7:27-16.16(d)]	Other: Maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions.[N.J.A.C. 7:27-22.16(g)1].	Other: The owner or operator shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions. For each different kind of batch or continuous process for which the source operation is used record the following information determined in accordance with the Procedure for Using Table 16A: 1. The chemical name and vapor pressure of each VOC used. 2. The percent concentration by volume of VOC in the source gas 3. The volumetric gas flow rate 4. The source gas range classification 5. The maximum allowable emission rate 6. Record the maximum actual emission rate. 7. Maintain any calculation and test data used to determine the actual emission rate. 8. If the source operation is used for more than one process, the dates the source operation is used.  or  Maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions for emissions after any control.[N.J.A.C. 7:27-22.16(g)1].	None.
5	VOC (Total) <= 0.4 lb/hr. Maximum hourly emissions rate, applies to OS3, OS4, OS5 and OS6. Based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	Hydrogen sulfide <= 0.02 lb/hr. Maximum hourly emissions rate, applies to OS3, OS4, OS5, and OS6. Based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.



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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Emission Unit: U11 Leachate Treatment System

Operating Scenario: OS1 Leachate Surge Tank (200,000 gallons)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Tank Content: Landfill Leachate and other waste water generated at the facility with vapor pressure, excluding the vapor pressure of water, of < 0.02psia at standard conditions. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Emissions of all contaminants are below the respective reporting thresholds per N.J.A.C.7:27-22, Appendix Table A and B from operating permit modification application based on AP42 Water9. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Waste Processing Rate <= 1,000 gal/min. Maximum design filling rate, based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Other: Plant effluent flow meter shall be used to monitor the flow through the wastewater treatment process[N.J.A.C. 7:27-22.16(o)].	Other: Maintain manufacturing design showing feed rate specifications.[N.J.A.C. 7:27-22.16(o)].	None.
4	Total Material Transferred <= 94.9 MMgal/yr. Maximum annual combined throughput based on operating permit modificatio application. Applies to OS1 (E5),OS2 (E4) and U19 (OS1, E19). [N.J.A.C. 7:27-22.16(a)]	Other: Total Material Transferred: The total material transferred from Leachate Storage Tank #1, #2 and #3 shall be monitored using scale house records. The owner and operator shall calculate the throughput for all leachate storage tanks using the scale house records and process records each month during operation.[N.J.A.C. 7:27-22.16(o)].	Total Material Transferred: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The owner or operator shall record the total monthly material transferred for all three tanks and the total year to date material transferred. [N.J.A.C. 7:27-22.16(o)]	None.
5	The owner or operator shall perform a leachate analysis at trucking station for VOC, Vinyl Chloride, Ethyl Benzene and Benzene. Applies to OS1 and OS2. [N.J.A.C. 7:27-22.16(e)]	Monitored by grab sampling annually and obtain results from a certified laboratory, applies to OS1 and OS2 combined.. [N.J.A.C. 7:27-22.16(e)]	Recordkeeping by certified lab analysis results annually. [N.J.A.C. 7:27-22.16(e)]	None.

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**New Jersey Department of Environmental Protection**  
**Facility Specific Requirements**

Emission Unit: U11 Leachate Treatment System

Operating Scenario: OS2 Leachate Storage Tank (200,000 gal)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Emissions of all contaminants are below the respective reporting thresholds per N.J.A.C.7:27-22, Appendix Table A and B from operating permit modification application based on AP42 Water9. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Emissions of all other contaminants are below the respective reporting thresholds per N.J.A.C.7:27-22, Appendix tables A and B. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Waste Processing Rate <= 1,000 gal/min. Maximum design filling rate. [N.J.A.C. 7:27-22.16(e)]	Other: Plant effluent flow meter shall be used to monitor the flow through the wastewater treatment process[N.J.A.C. 7:27-22.16(o)].	Other: Maintain manufacturing design showing feed rate specifications.[N.J.A.C. 7:27-22.16(o)].	None.
4	Total Material Transferred <= 94.9 MMgal/yr. Maximum annual combined throughput based on operating permit modificiatio application. Applies to OS1 (E5),OS2 (E4) and U19 (OS1, E19). [N.J.A.C. 7:27-22.16(a)]	Other: Total Material Transferred: The total material transferred from Leachate Storage Tank #1, #2 and #3 shall be monitored using scale house records. The owner and operator shall calculate the throughput for all leachate storage tanks using the scale house records and process records each month during operation.[N.J.A.C. 7:27-22.16(o)].	Total Material Transferred: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The owner or operator shall record the total monthly material transferred for all three tanks and the total year to date material transferred. [N.J.A.C. 7:27-22.16(o)]	None.
5	The owner or operator shall perform a leachate analysis at trucking station for VOC, Vinyl Chloride, Ethyl Benzene and Benzene. Applies to OS1 and OS2. [N.J.A.C. 7:27-22.16(e)]	Monitored by grab sampling annually and obtain results from a certified laboratory, applies to OS1 and OS2 combined.. [N.J.A.C. 7:27-22.16(e)]	Recordkeeping by certified lab analysis results annually. [N.J.A.C. 7:27-22.16(e)]	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U11 Leachate Treatment System

**Operating Scenario:** OS3 Aeration Flow Equalization Tank (30,000 gallons)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.2 lb/hr. Maximum hourly emission rate, based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	Hydrogen sulfide <= 0.02 lb/hr. Maximum hourly emission rate, based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Maximum Waste Feed Rate: 35gallons/min Maximum Design Fill Rate. Based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Other: Review manufacturing design showing filling rate[N.J.A.C. 7:27-22.16(o)].	Other: Maintain manufacturing design showing feed rate specifications.[N.J.A.C. 7:27-22.16(o)].	None.
4	Maximum Waste Feed Rate <= 50,000 gallons per day. Estimated Maximum Daily Throughput, Based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Maximum Waste Feed Rate: Monitored by material feed/flow monitoring continuously. Plant effluent flow meter shall be used to monitor the flow through the wastewater treatment process. [N.J.A.C. 7:27-22.16(o)]	Maximum Waste Feed Rate: Recordkeeping by manual logging of parameter each month during operation. Record the gallons per month in permanently bound book. [N.J.A.C. 7:27-22.16(e)]	None.
5	Raw Material Limited to Leachate and Sanitary waste with up to <=0.36 PSIA. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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**New Jersey Department of Environmental Protection**  
**Facility Specific Requirements**

Emission Unit: U11 Leachate Treatment System

Operating Scenario: OS4 Main Aeration Tank (190,700 gallons)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.2 lb/hr. Maximum hourly emission rate, based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	The minimum amount of virgin activated carbon added to the main aeration tank (OS4) shall be 25 lb/day. [N.J.A.C. 7:27-22.16(e)]	Other: Production Records.[N.J.A.C. 7:27-22.16(e)].	Recordkeeping by manual logging of parameter daily. Records of the ammount of carbon used shall be kept for a minimum of three years after collection and shall be made available to representatives of the Department upon request. [N.J.A.C. 7:27-22.16(e)]	None.
3	The carbon should not be disposed of in a land fill, It must be disposed of in a manner which prevents the release of contaminants. Applies to OS4, based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Hydrogen sulfide <= 0.01 lb/hr. Maximum hourly emission rate, based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	Maximum Waste Feed Rate < 35 gal/min. Maximum filling rate, based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Other: Review manufacturing design showing filling rate[N.J.A.C. 7:27-22.16(o)].	Other: Maintain manufacturing design showing feed rate specifications.[N.J.A.C. 7:27-22.16(o)].	None.
6	Maximum Waste Feed Rate <= 50,000 gallons per day. Maximum Daily Throughput with up to 0.36 PSIA. Based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Maximum Waste Feed Rate: Monitored by material feed/flow monitoring continuously. Plant effluent flow meter shall be used to monitor the flow through the wastewater treatment process. [N.J.A.C. 7:27-22.16(o)]	Maximum Waste Feed Rate: Recordkeeping by manual logging of parameter each month during operation. Record the gallons per month in permanently bound book. [N.J.A.C. 7:27-22.16(o)]	None.
7	Raw Material: Treated waste water and activated powder carbon. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U11 Leachate Treatment System

**Operating Scenario:** OS5 Secondary Aeration Tank (35,800 gallons)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) $\leq$ 0.2 lb/hr. Maximum hourly emission rate, based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	Maximum Waste Feed Rate $<$ 35 gal/min. Maximum filling rate, based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Other: Plant effluent flow meter shall be used to monitor the flow through the tanks.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain manufacturing design showing feed rate specifications.[N.J.A.C. 7:27-22.16(o)].	None.
3	Maximum Waste Feed Rate $\leq$ 50,000 gallons per day. Maximum daily throughput, based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Maximum Waste Feed Rate: Monitored by material feed/flow monitoring continuously. Plant effluent flow meter shall be used to monitor the flow through the wastewater treatment process. [N.J.A.C. 7:27-22.16(o)]	Maximum Waste Feed Rate: Recordkeeping by manual logging of parameter each month during operation. Record the gallons per month in permanently bound book. [N.J.A.C. 7:27-22.16(o)]	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U11 Leachate Treatment System

**Operating Scenario:** OS6 Aerated Sludge Tank (35,500 gallons)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) < 0.05 lb/hr. Maximum hourly emission rate, based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	Hydrogen sulfide <= 0.0001 lb/hr. Maximum hourly emission rate, based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	Maximum Waste Feed Rate < 50 gal/min. Maximum filling rate, based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Other: Review manufacturing design showing filling rate.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain manufacturing design showing feed rate specifications.[N.J.A.C. 7:27-22.16(o)].	None.
4	Maximum Waste Feed Rate <= 10.22 MMgal/yr Maximum Annual Throughput. Based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Other: Maximum Waste Feed Rate monitored by the level of sludge at the V-notch weir while pumping and the pumping time will be used to determine a daily input to the tank.[N.J.A.C. 7:27-22.16(o)].	Maximum Waste Feed Rate: Recordkeeping by manual logging of parameter daily. Pumping time will be used to determine a daily input to the tank. [N.J.A.C. 7:27-22.16(o)]	None.
5	Raw Material: Treated waste water and activated powder carbon with up to 0.36 PSIA. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U19 Leachate Storage Tank No. 3 ( 1 million gallon)

**Operating Scenario:** OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Tank Content: Landfill Leachate and other waste water generated at the facility with vapor pressure, excluding the vapor pressure of water, of < 0.02psia at standard conditions. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Tank capacity shall not exceed 1,000,000 gallons and it's content shall be limited to Landfill Leachate and other wastewater generated at the facility with a vapor pressure, excluding the vapor pressure of water, of < 0.02 psia at standard conditions from operating permit modification application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Total Material Transferred <= 94.9 MMgal/yr. Maximum annual combined throughput based on operating permit modificatio application. Applies to OS1 (E5), OS2 (E4) and U19 (OS1, E19). [N.J.A.C. 7:27-22.16(a)]	Other: Total Material Transferred: The total material transferred from Leachate Storage Tank #1, #2 and #3 shall be monitored using scale house records. The owner and operator shall calculate the throughput for all leachate storage tanks using the scale house records and process records each month during operation. [N.J.A.C. 7:27-22.16(o)].	Total Material Transferred: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The owner or operator shall record the total monthly material transferred for all three tanks and the total year to date material transferred. [N.J.A.C. 7:27-22.16(o)]	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Emission Unit: U20 Micro-Turbines

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % Exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	The owner or operator shall comply, as applicable, with the standards required in 40 CFR 60 Subpart A listed in U1. [40 CFR 60]	Other: The owner or operator shall comply, as applicable, with the monitoring requirements as required in 40 CFR 60 Subpart A.[40 CFR 60].	Other: The owner or operator shall comply, as applicable, with the recordkeeping requirements as required in 40 CFR 60 Subpart A.[40 CFR 60].	Submit a report: As per the approved schedule the owner or operator shall comply, as applicable, with the submittal/action requirements as required in 40 CFR 60 Subpart A. The owner or operator shall submit all required reports to the EPA and NJDEP Regional Enforcement Office. [40 CFR 60]
3	Maximum Gross Heat Input <= 0.43 MMBTU/hr (HHV). Maximum gross input applies to each Micro Turbine. Based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Other: Fuel Burner Rated Capacity.[N.J.A.C. 7:27-22.16(o)].	None.	None.



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Facility Specific Requirements**

**Emission Unit:** U20 Micro-Turbines**Operating Scenario:** OS1 Greenhouse Microturbine 1-Landfill Gas, OS2 Greenhouse Microturbine 2-Landfill Gas, OS3 Greenhouse Microturbine 3-Landfill Gas, OS4 Greenhouse Microturbine 4-Landfill Gas

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Flowrate <= 6.73 MMft <sup>3</sup> /yr. Maximum yearly landfill gas flow rate based 564 Btu/scf heating value from preconstruction permit. Applies to OS1, OS2, OS3 and OS4. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	Landfill gas usage limited to landfill gas that has been treated in compliance with 40 CFR 60.752 and 40 CFR 60.759. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Facility Specific Requirements**

**Emission Unit:** U20 Micro-Turbines**Operating Scenario:** OS5 Greenhouse Microturbine 1-Natural Gas, OS6 Greenhouse Microturbine 2-Natural Gas, OS7 Greenhouse Microturbine 3-Natural Gas, OS8 Greenhouse Microturbine 4-Natural Gas

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Flowrate <= 3.72 MMft <sup>3</sup> /yr Maximum yearly gas flow rate and Fuel limited to Natural Gas gas with 1020 Btu/scf heating value. Applies to OS5, OS6, OS7 and OS8. Based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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**New Jersey Department of Environmental Protection**  
**Facility Specific Requirements**

Emission Unit: U21 Microturbine 5

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % , exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	Particulate Emissions <= 2.1 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	VOC (Total) <= 0.876 tons/yr. Maximum annual emission limit based on 8760 hours of operation per year from operating permit modification application. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.
4	NOx (Total) <= 2.5 tons/yr. Maximum annual emission limit based on 8760 hours of operation per year from operating permit modification application. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.
5	CO <= 1.71 tons/yr. Maximum annual emission limit based on 8760 hours of operation per year from operating permit modification application. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.
6	SO2 <= 0.263 tons/yr. Maximum annual emission limit based on 8760 hours of operation per year from operating permit modification application. [N.J.A.C. 7:27-22.16(a)]	SO2: Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	SO2: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.
7	TSP <= 0.35 tons/yr. Maximum annual emission limit based on 8760 hours of operation per year from operating permit modification application. [N.J.A.C. 7:27-22.16(a)]	TSP: Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	TSP: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	PM-10 (Total) $\leq$ 0.35 tons/yr. Maximum annual emission limit based on 8760 hours of operation per year from operating permit modification application. [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	PM-10 (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.
9	Maximum Gross Heat Input $\leq$ 3.5 MMBTU/hr (HHV). Maximum heat input from operating permit application. [N.J.A.C. 7:27-22.16(e)]	Other: Fuel Burn Rated Capacity.[N.J.A.C. 7:27-22.16(o)].	None.	None.
10	Landfill gas usage limited to landfill gas that has been treated in compliance with 40 CFR 60.752 and 40 CFR 60.759. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Emission Unit: U21 Microturbine 5

Operating Scenario: OS2 Microturbine No 5 Landfill Gas

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	SO <sub>2</sub> ≤ 5 lb/hr in any 60-minute period. [N.J.A.C. 7:27- 7.2(b)2]	None.	None.	None.
2	SO <sub>2</sub> ≤ 10 lb/hr at any instant. [N.J.A.C. 7:27- 7.2(b)2]	None.	None.	None.
3	VOC (Total) ≤ 0.21 lb/hr. Maximum hourly emission limit from operating permit modification application based on emission factors from manufacturer (0.20 lb/MM-hr at 1 MW-hr = 3.41MMBtu) and maximum gross rated heat input (3.5 MMBtu/hr). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	NO <sub>x</sub> (Total) ≤ 0.57 lb/hr. Maximum hourly emission limit from operating permit modification application based on emission factors from manufacturer (0.56 lb/MM-hr at 1 MW-hr = 3.41MMBtu) and maximum gross rated heat input (3.5 MMBtu/hr). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	CO ≤ 0.39 lb/hr. Maximum hourly emission limit from operating permit modification application based on emission factors from manufacturer (0.38 lb/MM-hr at 1 MW-hr = 3.41MMBtu) and maximum gross rated heat input (3.5 MMBtu/hr). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	SO <sub>2</sub> ≤ 0.06 lb/hr. Maximum hourly emission limit from operating permit modification application based on emission factors from manufacturer (0.059 lb/MM-hr at 1 MW-hr = 3.41MMBtu) and maximum gross rated heat input (3.5 MMBtu/hr). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

<b>Ref.#</b>	<b>Applicable Requirement</b>	<b>Monitoring Requirement</b>	<b>Recordkeeping Requirement</b>	<b>Submittal/Action Requirement</b>
7	TSP <= 0.08 lb/hr. Maximum hourly emission limit from operating permit modification application based on AP42 Emission Factors (22 lb/MMscf Methane), maximum gross rated heat input (3.5 MMBtu/hr) and a heating value of 480 Btu/scf. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-10 (Total) <= 0.08 lb/hr. Maximum hourly emission limit from operating permit modification application based on AP42 Emission Factors (22 lb/MMscf Methane), maximum gross rated heat input (3.5 MMBtu/hr) and a heating value of 480 Btu/scf. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Landfill gas usage <= 63.88 MMft <sup>3</sup> /yr. Maximum annual landfill gas usage from operating permit modification application based on 8760 hours of operation per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U30 Five (5) LFG Engines with a Gas Conditioning, Skid System and a Temperature Swing Adsorber (TSA) System

**Operating Scenario:** OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	<p>STACK TESTING SUMMARY: The permittee shall conduct a stack test at emission point PT46 - CD9 using a protocol approved by the Department to demonstrate compliance with emission limits for NOx, CO, VOC, NMOC, and SO2 as specified in the compliance plan for OS16.</p> <p>Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition.</p> <p>THIS STACK TEST IS SUBJECT TO THE SIGNIFICANT MODIFICATION SUPPLEMENTAL FEES PURSUANT TO N.J.A.C. 7:27-22.31.</p> <p>[N.J.A.C. 7:27-22.16(a)]</p>	<p>Monitored by stack emission testing once initially, based on each of three Department validated stack test runs. Monitoring as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by stack test results once initially. Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)]</p>	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Bureau of Technical Services (BTS) at PO Box 437, Trenton, NJ 08625 within 60 days from the date of the approved modified operating permit. Within 30 days of protocol approval, the permittee must contact BTS at 609-530-4041 to schedule a mutually acceptable test date.</p> <p>The stack test must be conducted within 180 days from the date of the approved operating permit BOP100001, the stack test must be conducted within 60 days of the approval of the protocol or within 180 days after initial startup of the new or modified source, whichever comes later.</p> <p>If a source is subject to NSPS, extending the testing date beyond 180 days after the source's initial startup requires prior approval from US EPA.</p> <p>A full stack test report must be submitted to BTS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d).</p> <p>The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and. [N.J.A.C. 7:27-22.18(h)]</p>

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
2	<p>STACK TESTING SUMMARY The permittee shall conduct a stack test at least 18 months prior to the expiration of the renewed operating permit using an approved protocol to demonstrate compliance with emission limits for NOx, CO, NMOC, VOC, and SO2 as specified in the compliance plan for OS11, OS12, OS13, OS14, and OS15.</p> <p>Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition.</p> <p>The permittee may propose, in the stack test protocol, to use CEMS data to satisfy the stack testing requirements, for NOx, CO, NMOC, VOC, and SO2, with BTS approval. In order for BTS to approve using CEMS data at the time of the stack test, the CEMS must be certified and be in compliance with all daily, quarterly and annual quality assurance requirements. The CEMS shall monitor and record emissions in units identical to those required by the applicable stack testing conditions of this permit. CEMS data, if allowed by this permit, shall be taken at the same worst case conditions as described above. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Monitored by stack emission testing prior to permit expiration date, based on each of three Department validated stack test runs. Unless otherwise approved in the stack test protocol or by the Department, each test run shall be 60 minutes in sampling duration. Monitoring as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by stack test results upon occurrence of event. Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)]</p>	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Bureau of Technical Services (BTS) at PO Box 437, Trenton, NJ 08625 at least 30 months prior to the expiration of the approved operating permit.</p> <p>Within 30 days of protocol approval or no less than 60 days prior to the intended test date, whichever is later, the permittee must contact BTS at 609-530-4041 to schedule a mutually acceptable test date.</p> <p>A full stack test report must be submitted to BTS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and [N.J.A.C. 7:27-22.18(h)]</p>
3	<p>The owner or operator must notify the REO within 30 days after the startup of the source. Startup shall be defined pursuant to 40 CFR 63 Subpart A. [N.J.A.C. 7:27-22.16(a)]</p>	None.	None.	<p>Submit notification: As per the approved schedule. Submit a written notification to the REO within 30 days after startup. [N.J.A.C. 7:27-22.16(o)]</p>



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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	Opacity <= 20 %. No person shall cause, suffer, allow or permit smoke the shade or appearance of which is darker than number 1 on the Ringelmann smoke chart or greater than 20 percent opacity, exclusive of visible condensed water vapor, to be emitted into the outdoor air from the combustion of fuel in any stationary internal combustion engine. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
5	Particulate Emissions <= 6.5 lb/hr. Maximum allowable emission rate based on rated heat input rate for each engine. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
6	CO <= 500 ppmvd @ 15% O2. Maximum allowable emission rate. [N.J.A.C. 7:27-16.10(b)]	None.	None.	None.
7	The owner or operator shall adjust the engine's combustion process in accordance with the manufacturer's recommended and maintenance schedules.[N.J.A.C. 7:27-16.10(e)2], [N.J.A.C. 7:27-19.8(f)2] and. [N.J.A.C. 7:27-19.16(g)]	Other: Manufacturer's recommended procedures.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by manual logging of parameter or storing data in a computer data system at the manufacturer's specified frequency The owner or operator shall record the following: 1. The date of the adjustment and the times at which it began and ended; 2. The name, title, and affiliation of the person who performed the procedure and adjustment; 3. The type of procedure and maintenance performed; 4. The concentrations of NOx, CO and O2 measured before and after the adjustment was made; and 5. The type and amount of fuel use over the 12 months prior to the adjustment. [N.J.A.C. 7:27-19.16(h)]	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	An exceedance of an emission limit that occurs during an adjustment of the combustion process under N.J.A.C. 7:27-19.16(g) is not a violation of this subchapter if it occurs as a result of the adjustment. After the combustion adjustment has been completed, the maximum emission rate of any contaminant shall not exceed the maximum allowable emission rate applicable under this subchapter or under an operating permit issued pursuant to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-19.16(f)]	None.	None.	None.
9	VOC (Total) <= 14.84 tons/yr. Maximum annual emission limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	NOx (Total) <= 56.2 tons/yr. Maximum annual emission limit based on significant modification application BOP100001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	CO <= 249.85 tons/yr. Maximum annual emission limit based on significant modification application BOP100001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	SO2 <= 32.04 tons/yr. Maximum annual emission limit based on significant modification application BOP100001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	TSP <= 16.02 tons/yr. Maximum annual emission limit based on significant modification application BOP100001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	PM-10 (Total) <= 16.02 tons/yr. Maximum annual emission limit based on significant modification application BOP100001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	PM-2.5 (Total) <= 16.02 tons/yr. Maximum annual emission limit based on significant modification application BOP100001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	KW (total) <= 59,553,000 KW-hr/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	Maximum Gross Heat Input <= 13.58 MMBTU/hr (HHV) (1425kW) from preconstruction permit. [N.J.A.C. 7:27-22.16(o)]	Other: Fuel Burner Rated Capacity.[N.J.A.C. 7:27-22.16(o)].	None.	None.
18	The owner or operator shall operate the gas conditioning system (chiller and filters) in conjunction with either the venture siloxane removal system and/or the temperature swing adsorber (TSA). This unit is not controlling emissions from the engines. During desorption of either the venture and/or TSA siloxane removal systems, the process of gases shall be vented to Flare No. 6 (CD9). Based on significant modification BOP100001. [N.J.A.C. 7:27-22.16(a)]	Monitored by hour/time monitor continuously. The permittee shall monitor the hours of operation and configuration of the venture system and the TSA operation continuously. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. [N.J.A.C. 7:27-21.16(o)]	None.
19	The TSA unit will not operate as a primary gas conditioning system for more than 4,380 hours per year without a carbon change out. Based on significant modification BOP100001. [N.J.A.C. 7:27-22.16(a)]	Monitored by hour/time monitor continuously. The permittee shall monitor the hours of operation in which the TSA operates as a primary gas conditioning system. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	None.
20	Landfill gas usage limited to landfill gas that has been treated in compliance with 40 CFR 60.752 and 40 CFR 60.759. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
21	No owner or operator subject to the provisions of MACT Subpart A in 40 CFR 63 shall build, erect, install, or use any article, machine, equipment, or process to conceal an emission that would otherwise constitute noncompliance with a relevant standard. Such concealment includes, but is not limited to: (1) The use of diluents to achieve compliance with a relevant standard based on the concentration of a pollutant in the effluent discharged to the atmosphere; (2) The use of gaseous diluents to achieve compliance with a relevant standard for visible emissions. [40 CFR 63.4(b)]	None.	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
22	The owner and operator must not use fragmentation or phasing of reconstruction activities (i.e., intentionally dividing reconstruction into multiple parts for purposes of avoiding new source requirements) to avoid becoming subject to new source requirements. [40 CFR 63.4(c)]	None.	None.	None.
23	The owner or operator of an affected source shall conduct monitoring as specified in the relevant standard, unless otherwise specified by the Administrator. [40 CFR 63.8(b)(1)]	None.	None.	None.
24	The owner or operator of a new or reconstructed major affected source must provide a notification of intention to construct a new major-emitting affected source, or reconstruct a major source that becomes a major- emitting affected source, with the application for approval of construction or reconstruction as specified in 40 CFR 63.5(d)(1)(i). [40 CFR 63.9(b)(4)]	None.	Recordkeeping by other recordkeeping method (provide description) once initially. Notification records shall be maintained and recorded in a form suitable and readily available for expeditious inspection and review for at least 5 years following the date of each record. At minimum, the most two recent years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on a computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63.10(b)(1)]	Submit notification: As per the approved schedule. The notification shall be submitted before start-up but not later than 60 days after the effective date of a relevant standard. [40 CFR 63.5(d)(1)(i)]
25	The owner or operator of a new or reconstructed affected source must provide the following information to the Administrator: notification of intention to construct a new affected source, reconstruct an affected source, or reconstruct a source such that the source becomes an affected source: notification of the actual date of startup of the source shall be delivered or postmarked within 15 calendar days after that date. [40 CFR 63.9(b)(5)]	None.	Recordkeeping by other recordkeeping method (provide description) once initially. Notification records shall be maintained and recorded in a form suitable and readily available for expeditious inspection and review for at least 5 years following the date of each record. At minimum, the most two recent years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on a computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63.10(b)(1)]	Submit notification: Upon occurrence of event. [40 CFR 63.9(b)(5)]

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
26	The owner or operator shall submit all information required under 40 CFR 63 to the Regional Enforcement Office of NJDEP. The owner or operator shall send a copy of each report submitted to NJDEP under 40 CFR 63 to Director, Air and Waste Management Division, USEPA Region 2, 290 Broadway, New York, NY 10007-1866. [40 CFR 63.10(a)(4)(ii)]	None.	Other: The owner or operator of an affected source subject to the provisions of this part shall maintain files of all information (including all reports and notifications) required by this part recorded in a form suitable and readily available for expeditious inspection and review. The files shall be retained for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent 2 years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63.10(b)(1)].	Other (provide description): As per the approved schedule. Submit reports and notifications as required by 40 CFR 63 to EPA Region 2 and NJDEP. [40 CFR 63.13(b)]

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U30 Five (5) LFG Engines with a Gas Conditioning, Skid System and a Temperature Swing Adsorber (TSA) System

**Operating Scenario:** OS11 Engine # 1 firing landfill gas, Normal Operation, OS12 Engine # 2 firing landfill gas, Normal Operation, OS13 Engine # 3 firing landfill gas, Normal Operation, OS14 Engine # 4 firing landfill gas, Normal Operation, OS15 Engine # 5 firing landfill gas, Normal Operation

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions <= 8.15 lb/hr. Maximum Allowable Emission Rate, based on Heat Input Rate. [N.J.A.C. 7:27- 4.a]	None.	None.	None.
2	VOC (Total) <= 1.77 lb/hr. [N.J.A.C. 7:27-22.16(e)]	VOC (Total): Monitored by stack emission testing prior to permit renewal, based on each of three Department validated stack test runs. See stack test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event. See stack test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]
3	NOx (Total) <= 2.66 lb/hr. [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Monitored by stack emission testing prior to permit renewal, based on each of three Department validated stack test runs. See stack test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results upon occurrence of event. See stack test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	NOx (Total) <= 2.66 lb/hr. [N.J.A.C. 7:27-22.16(e)]	<p>NOx (Total): Monitored by periodic emission monitoring each month during operation. The periodic monitoring procedure shall be carried out in accordance with the procedure specified in the latest version of NJDEP Technical Manual 1005.</p> <p>The Periodic Monitoring Procedure (PMP) initial frequency may be reduced from monthly to quarterly after 12 consecutive monthly test results showing compliance with the permit limits. The minimum duration between PMP tests shall be 15 calendar days. The permittee must request a reduction in PMP frequency through the modification procedures.</p> <p>If the PMP test result exceeds the permit limit, the permittee shall do the following:</p> <p>(1) Verify that the equipment and/or control device is operating according to manufacturer's specifications and the operating permit compliance plan. If the equipment or control device is not operating properly, the permittee shall take corrective action immediately to eliminate the excess emissions.</p> <p>(2) If the corrective action taken in step (1) does not correct the problem within 24 hours, the applicant shall perform a repeat the PMP test. Such test shall be conducted each day until corrective action is taken to successfully correct the problem. [N.J.A.C. 7:27-22.16(o)]</p>	<p>NOx (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The owner or operator shall record and retain the following records:</p> <p>(1) Date and time of PMP;</p> <p>(2) PMP results and calculations in accordance with the procedure specified in the latest version of NJDEP Technical Manual 1005. PMP results must be recorded in the same units as permit limits;</p> <p>(3) Description of corrective action taken if needed;</p> <p>(4) Date and time of corrective action taken, if applicable. [N.J.A.C. 7:27-22.16(o)]</p>	None.
5	NOx (Total) <= 1.5 grams/brake horsepower-hour. [N.J.A.C. 7:27-19.8(e)1]	NOx (Total): Monitored by stack emission testing prior to permit renewal, based on the average of three Department validated stack test runs. See stack test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results upon occurrence of event. See stack test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]

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**Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	NOx (Total) <= 0.6 grams/brake horsepower-hour. [N.J.A.C. 7:27-22.16(e)]	NOx (Total): Monitored by stack emission testing prior to permit renewal, based on each of three Department validated stack test runs. See stack test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results prior to permit renewal. See stack test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]
7	CO <= 11.95 lb/hr. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by stack emission testing prior to permit renewal, based on each of three Department validated stack test runs. See stack test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results once initially and prior to permit renewal. See stack test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]



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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	CO <= 11.95 lb/hr. [N.J.A.C. 7:27-22.16(a)]	<p>CO: Monitored by periodic emission monitoring each month during operation. The periodic monitoring procedure shall be carried out in accordance with the procedure specified in the latest version of NJDEP Technical Manual 1005.</p> <p>The Periodic Monitoring Procedure (PMP) initial frequency may be reduced from monthly to quarterly after 12 consecutive monthly test results showing compliance with the permit limits. The minimum duration between PMP tests shall be 15 calendar days. The permittee must request a reduction in PMP frequency through the modification procedures.</p> <p>If the PMP test result exceeds the permit limit, the permittee shall do the following:</p> <p>(1) Verify that the equipment and/or control device is operating according to manufacturer's specifications and the operating permit compliance plan. If the equipment or control device is not operating properly, the permittee shall take corrective action immediately to eliminate the excess emissions.</p> <p>(2) If the corrective action taken in step (1) does not correct the problem within 24 hours, the applicant shall perform a repeat the PMP test. Such test shall be conducted each day until corrective action is taken to successfully correct the problem. [N.J.A.C. 7:27-22.16(o)]</p>	<p>CO: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The owner or operator shall record and retain the following records:</p> <p>(1) Date and time of PMP;</p> <p>(2) PMP results and calculations in accordance with the procedure specified in the latest version of NJDEP Technical Manual 1005. PMP results must be recorded in the same units as permit limits;</p> <p>(3) Description of corrective action taken if needed;</p> <p>(4) Date and time of corrective action taken, if applicable.</p> <p>. [N.J.A.C. 7:27-22.16(o)]</p>	None.
9	CO <= 2.7 grams/brake horsepower-hour. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. See stack test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results once initially and prior to permit renewal. See stack test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	CO <= 339 ppm @ 15% O <sub>2</sub> . [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by stack emission testing prior to permit expiration date, based on each of three Department validated stack test runs. See stack test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results upon occurrence of event. See stack test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]
11	CO <= 339 ppm @ 15% O <sub>2</sub> . [N.J.A.C. 7:27-22.16(e)]	<p>CO: Monitored by periodic emission monitoring each month during operation. The periodic monitoring procedure shall be carried out in accordance with the procedure specified in the latest version of NJDEP Technical Manual 1005.</p> <p>The Periodic Monitoring Procedure (PMP) initial frequency may be reduced from monthly to quarterly after 12 consecutive monthly test results showing compliance with the permit limits. The minimum duration between PMP tests shall be 15 calendar days. The permittee must request a reduction in PMP frequency through the modification procedures.</p> <p>If the PMP test result exceeds the permit limit, the permittee shall do the following:</p> <p>(1) Verify that the equipment and/or control device is operating according to manufacturer's specifications and the operating permit compliance plan. If the equipment or control device is not operating properly, the permittee shall take corrective action immediately to eliminate the excess emissions.</p> <p>(2) If the corrective action taken in step (1) does not correct the problem within 24 hours, the applicant shall perform a repeat the PMP test. Such test shall be conducted each day until corrective action is taken to successfully correct the problem. [N.J.A.C. 7:27-22.16(o)]</p>	<p>CO: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The owner or operator shall record and retain the following records:</p> <p>(1) Date and time of PMP;</p> <p>(2) PMP results and calculations in accordance with the procedure specified in the latest version of NJDEP Technical Manual 1005. PMP results must be recorded in the same units as permit limits;</p> <p>(3) Description of corrective action taken if needed;</p> <p>(4) Date and time of corrective action taken, if applicable.</p> <p>. [N.J.A.C. 7:27-22.16(o)]</p>	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	SO <sub>2</sub> ≤ 1.52 lb/hr. [N.J.A.C. 7:27-22.16(e)]	SO <sub>2</sub> : Monitored by stack emission testing prior to permit renewal, based on each of three Department validated stack test runs. See stack test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]	SO <sub>2</sub> : Recordkeeping by stack test results upon occurrence of event. See stack test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]
13	TSP ≤ 0.75 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
14	PM-10 (Total) ≤ 0.75 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
15	Non-Methane Organic Compounds (NMOC) ≤ 20 ppmvd at 3% O <sub>2</sub> as Hexane. Maximum hourly emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Monitored by stack emission testing prior to permit renewal, based on each of three Department validated stack test runs. See stack test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by stack test results upon occurrence of event. See stack test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]
16	Landfill gas usage ≤ 282 MMft <sup>3</sup> /yr. Maximum fuel usage for each engine from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Monitored by fuel usage totalizing meter continuously, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.

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**Emission Unit:** U30 Five (5) LFG Engines with a Gas Conditioning, Skid System and a Temperature Swing Adsorber (TSA) System

**Operating Scenario:** OS16 Pretreatment Devices TSA & Venture off gas, OS26 Pretreatment Devices TSA & Venture off gas - start up

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No person shall cause, suffer, allow or permit particles to be emitted from any stack or chimney of which is greater than 20 percent opacity, exclusive of water vapor, except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] & [N.J.A.C. 7:27- 6.2(e)]	Monitored by visual determination each month during operation, based on any consecutive 30-minute period. For compliance with the opacity standard, the permittee shall conduct visual opacity inspections during daylight hours. Visual inspections shall consist of a visual survey to identify if the stack has visible emissions, (other than condensed water vapor), greater than the prescribed standard (See Applicable Requirement). If visible emissions are observed, the permittee shall do the following: (1) Verify that the equipment and/or control device causing the emission is operating according to manufactures specifications and the operating permit compliance plan. If the equipment or control device is not operating properly, the permittee shall take corrective action immediately to eliminate the excess emissions. The permittee must report any permit violations to NJDEP pursuant to N.J.A.C. 7:27-22.19.; (2) If the corrective action taken in step (1) does not correct the opacity problem within 24 hours, the applicant shall perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2. Such test shall be conducted each day until corrective action is taken to successfully correct the opacity problem. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation manually log in a logbook or in readily accessible computer memories and retain the following records: (1) Date and time of inspection; (2) Emission Point number; (3) Operational status of equipment; (4) Observed results and conclusions; (5) Description of corrective action taken if needed; (6) Date and time opacity problem was solved, if applicable; (7) N.J.A.C. 7:27B-2 results if conducted; and (8) Name of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
2	Any flare in use at a major VOC facility after May 31, 1995, shall: 1. Have been designed to reduce the concentration of VOC from the source operation by no less than 95 percent; 2. Have been installed in accordance with the specifications provided by the manufacturer of the flare; and 3. Be operated and maintained in accordance with the manufacturer of the flare, and Burlington County Resource Recovery Complex operations. [N.J.A.C. 7:27-16.13(a)]	None.	None.	None.
3	The owner or operator of any flare shall submit in writing, to the Assistant Director of Air and Environmental Quality Enforcement, Division of Enforcement Field Operations, Department of Environmental Protection, P.O. Box 420, Mail Code 401-02 Trenton, NJ 08625-0420, the following information and shall be certified in accordance with N.J.A.C. 7:27-1.39. 1. The name of the owner and operator of the flare; 2. The make, model and serial number of the flare; 3. A copy of the manufacturer's specification of the performance standards for the flare; 4. A statement that the flare was installed in accordance with the manufacturer's specifications; 5. A statement that the flare is being operated and maintained in accordance with the manufacturer's specifications; and 6. A statement that the flare will continue to be operated in accordance with the manufacturer's specifications. [N.J.A.C. 7:27-16.13(b)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	The owner or operator shall inspect the flare before May 1 of each year to verify that the flare continues to be operated in accordance with the manufacturer's specifications for the operation of the flare. [N.J.A.C. 7:27-16.13(c)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. The owner or operator shall record the following in a permanently bound log book at the conclusion of each inspection: (1) name of person conducting the inspection; (2) date on which the inspection was conducted; (3) an entry indicating which flare was inspected; (4) any changes or adjustments made to the flare as a result of the inspection; and (5) a statement stating that the flare is currently being operated in compliance with the manufacturer's specifications. [N.J.A.C. 7:27-16.13(c)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	<p>Adjusting: When any provision of this subchapter requires the adjustment of a combustion process for any equipment or source operation, other than stationary combustion turbines and reciprocating engines, the owner or operator of the equipment or source operation shall:</p> <p>1.0 Inspect the burner, and clean or replace any components of the burner as necessary;</p> <p>2.0 Inspect the flame pattern and make any adjustments to the burner necessary to optimize the flame pattern consistent with the manufacturer's specifications;</p> <p>3.0 Inspect the system controlling the air to fuel ratio, and ensure that it is correctly calibrated and functioning properly;</p> <p>4.0 Minimize total emissions of NOx and CO consistent with the manufacturer's specifications;</p> <p>5.0 Measure the concentrations in the effluent stream of NOx, CO and O2 in ppmvd, before and after the adjustment is made; and</p> <p>6.0 Convert the emission values of the NOx, CO and O2 concentrations measured pursuant to (a)5 above to pounds per million BTU (lb/MM BTU) according to the following formula:</p> $\text{lb/MM BTU} = \text{ppmvd} \times \text{MW} \times \text{F dry factor} \times \text{O2 correction factor} \quad 387,000,000$ <p>Where:</p> <p>ppmvd is the concentration in parts per million by volume, dry basis, of NOx or CO</p> <p>MW is the Molecular Weight for:</p> <p>NOx = 46 lb/lb-mole; CO = 28 lb/lb-mole</p> <p>F dry factor for: Natural gas = 8,710</p> <p>dscf/MM BTU - Residual or fuel oil = 9,190</p> <p>dscf/MM BTU - O2 correction factor:</p> $(20.9\%) - (20.9\% - \text{O2 measured}) - \text{O2 measured}$ <p>measured is percent oxygen on a dry basis.</p> <p>[N.J.A.C. 7:27-19.16(a)]</p>	None.	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event and retained for a minimum of five years, to be made readily accessible to the Department upon request. Such record shall contain the following information for each adjustment:</p> <p>1.0 The date of the adjustment and the times at which it began and ended;</p> <p>2.0 The name, title and affiliation of the person who made the adjustment;</p> <p>3.0 The NOx and CO concentrations in the effluent stream, in ppmvd, before and after each actual adjustment was made;</p> <p>4.0 The concentration of O2 (in percent dry basis) at which the CO and NOx concentrations were measured pursuant to (a)5 above;</p> <p>5.0 A description of any corrective action taken;</p> <p>6.0 Results from any subsequent tests performed after taking any corrective action, including concentrations and converted emission values in pounds per million BTU (lb/MM BTU);</p> <p>7.0 The type and amount of fuel used over the 12 months prior to the annual adjustment; and</p> <p>8.0 Any other information which the Department or the EPA has required as a condition of approval of any permit or certificate issued for the equipment or source operation.</p> <p>. [N.J.A.C. 7:27-19.16(b)]</p>	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	NOx (Total) <= 0.4032 lb/hr. Maximum emission rate, based on stack test, and Significant Modification Application BOP100001. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Monitored by stack emission testing once initially and prior to permit expiration date, based on each of three Department validated stack test runs. See stack test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results upon occurrence of event. See stack test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]
7	NOx (Total) <= 0.08 lb/MMBTU. Maximum emission rate, based on stack test, and Significant Modification Application BOP100001. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing once initially and prior to permit expiration date, based on each of three Department validated stack test runs. See the stack testing requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results upon occurrence of event. See the stack testing requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack testing requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
8	CO <= 0.756 lb/hr. Maximum emission rate, based on stack test, and Significant Modification Application BOP100001. [N.J.A.C. 7:27-22.16(o)]	CO: Monitored by stack emission testing once initially and prior to permit expiration date, based on each of three Department validated stack test runs. See stack test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results upon occurrence of event. See stack test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack testing requirements in OS Summary, ref #1. [N.J.A.C. 7:27-22.16(o)]
9	CO <= 0.15 lb/MMBTU. Maximum emission rate, based on stack test, and Significant Modification Application BOP100001. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing once initially and prior to permit expiration date, based on each of three Department validated stack test runs. See the stack testing requirements in OS Summary. [N.J.A.C. 7:27-22.16(a)]	CO: Recordkeeping by stack test results upon occurrence of event. See the stack testing requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See the stack testing requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
10	SO2 <= 0.1814 lb/hr. Maximum emission rate, based on stack test, and Significant Modification Application BOP100001. [N.J.A.C. 7:27-22.16(o)]	SO2: Monitored by stack emission testing once initially and prior to permit expiration date, based on each of three Department validated stack test runs. See stack test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]	SO2: Recordkeeping by stack test results upon occurrence of event. See stack test details in the OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test details in the OS Summary. [N.J.A.C. 7:27-21.16(o)]
11	TSP <= 0.2016 lb/hr. Maximum hourly emission rate, based on Significant Modification Application BOP100001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	PM-10 (Total) <= 0.2016 lb/hr. Maximum hourly emission rate, based on Significant Modification Application BOP100001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.



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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	VOC Destruction and Removal Efficiency of Ventilation System $\geq 98\%$ . Minimum VOC Destruction and Removal Efficiency. This requirement shall apply to the flare CD9. [N.J.A.C. 7:27-22.16(a)]	Other: Minimum destruction efficiency based on manufacturer's specifications.[N.J.A.C. 7:27-22.16(o)].	Other: Minimum destruction efficiency based on manufacturer's specifications.[N.J.A.C. 7:27-22.16(o)].	None.
14	Temperature at Exit of Combustion Chamber $\geq 1,500$ degrees F. Minimum operating temperature, based on Significant Modification Application. The above temperature requirements shall apply to CD9. [N.J.A.C. 7:27-22.16(a)]	Temperature at Exit of Combustion Chamber: Monitored by temperature instrument continuously. The permittee shall install, operate and maintain an alarm or other operational warning system, properly shielded from direct contact with the flame. The warning system shall be designed to notify the operator at any time flare temperature is detected to be less than the permitted operating temperature. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately midscale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Temperature at Exit of Combustion Chamber: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
15	The permittee shall monitor the flare burners by a UV Scanner for CD9 or any equivalent device to ensure the presence of a flame. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	Flowrate $\leq 150$ ACFM. Gas flow rate applying only to the (CD9) Flare. Based on Significant Modification Application BOP100001. [N.J.A.C. 7:27-22.16(a)]	Flowrate: Monitored by flue gas flow rate instrument continuously. The landfill gas flow rate to the enclosed flare shall be continuously monitored (in scfm). The flow rate monitoring system shall: (1) correct and report from actual to standard cubic feet; (2) have an overall accuracy of not less than 0.5% or the best accuracy available; (3) be installed and operated in accordance with the instructions of the manufacturer; and (4) be equipped with a totalizer to continuously monitor the cumulative amount of landfill gas directed to the flare in scf. [N.J.A.C. 7:27-22.16(o)]	Flowrate: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. The owner or operator shall install and operate a strip chart of DAS within 180 days of the approval of the significant modification application BOP100001. [N.J.A.C. 7:27-22.16(o)]	Install equipment: Within 180 days from the date of the approved permit. [N.J.A.C. 7:27-22.16(o)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	Minimum Heat Content at BurnerTip $\geq 400 \text{ Btu/ft}^3$ . Applies to the CD9 only. Based on Significant Modification Application BOP100001. [N.J.A.C. 7:27-22.16(o)]	None.	None.	None.
18	Residence Time of the Gases in the Afterburner $\leq 0.7$ seconds. Maximum Residence Time and applies to CD9. Based on Significant Modification Application BOP100001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
19	Hours of Operation $\leq 5,000$ hours per any twelve consecutive month period. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor continuously, based on a consecutive 12 month period (rolling 1 month basis). The Permittee shall sum the hours for the month with the hours of the previous eleventh months. [N.J.A.C. 7:27-22.16(o)]	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
20	The flare CD9 shall be equipped with an automatic shut-off of the flow of gas to the flare when flare combustion ceases and can be restarted by automatic re-light system. The flare shall also have a smokeless design. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
21	Auxiliary Fuel = Propane. The Department reserves the right to require that auxiliary fuel be added to the flare (CD9 ) to ensure proper combustion, based on the analytical results of the landfill gas stream sampling. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
22	All requests, reports, applications, submittals, and other communications to the Administrator pursuant to this part shall be submitted in duplicate to the appropriate Regional Office of the U.S. Environmental Protection Agency to the attention of the Director of the Division indicated in the list of EPA Regional Offices. [40 CFR 60.a]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
23	Submit a copy of all requests, reports, applications, submittals, and other communication required by 40 CFR 60 to the Regional Enforcement Office of NJDEP. [40 CFR 60.4(b)]	None.	None.	None.
24	A notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in 40CFR 60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional relevant information subsequent to this notice. [40 CFR 60.7(a)(4)]	None.	None.	None.
25	Any owner or operator subject to the provisions of this part shall maintain records of the occurrence and duration of any start-up, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. [40 CFR 60.7(b)]	None.	None.	None.
26	The owner or operator shall maintain a file, suitable for inspection, of all monitoring measurements as indicated in Recordkeeping Requirement column. [40 CFR 60.7(f)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
27	At all times, including periods of start-up, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operation and maintenance procedures, and inspection of the source. [40 CFR 60.11(d)]	None.	None.	None.
28	The owner or operator shall route all the collected gas to an enclosed combustor designed and operated to reduce the outlet NMOC concentration to 20 ppmvd at 3% oxygen (as hexane), or less; [All emissions from any atmospheric vent from the gas treatment system shall be subject to the requirement above.] [40 CFR 60.752(b)(iii)]	Other: Operate the collection and control device installed to comply with this subpart in accordance with the provisions of [40 CFR 60.752(b)(2)(iv)], [40 CFR 60.753], [40 CFR 60.755] and [40 CFR 60.756].	None.	None.
29	Operate the system such that all collected gases are vented to a control system designed and operated in compliance with 40 CFR 60.752(b)(2)(iii). In the event the collection or control system is inoperable, the gas mover system shall be shut down and all valves in the collection and control system contributing to venting of the gas to the atmosphere shall be closed within 1 hour. [40 CFR 60.753(e)]	None.	None.	None.
30	Operate the control or treatment system at all times when the collected gas is routed to the system. [40 CFR 60.753(f)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
31	If monitoring demonstrates that the operational requirements in 40CFR60.753 (b), (c), or (d) are not met, corrective action shall be taken as specified in 40 CFR 60.755(a)(3) through (5) or 40 CFR 60.755(c) of this subpart. If corrective actions are taken as specified in 40 CFR 60.755, the monitored exceedance is not a violation of the operational requirements in this section. [40 CFR 60.753(g)]	None.	None.	None.
32	Operate the collection and control device installed to comply with this subpart in accordance with the provisions of [40 CFR 60.752(b)(2)(iv)], [40 CFR 60.753], [40 CFR 60.755] and [40 CFR 60.756]	None.	None.	None.
33	The owner or operator must operate and maintain any affected source at all times, including periods of startup, shutdown, and malfunction, including associated APC equipment and monitoring equipment for minimizing emissions to the levels required by the relevant standards, i.e., meet the emission standard or comply with the startup, shutdown, and malfunction plan. [40 CFR 63.6(e)(1)(i)]	None.	None.	None.
34	For equipment subject to MACT, malfunctions shall be corrected as soon as practicable after their occurrence, in accordance with the startup, shutdown, and malfunction plan required under [40 CFR 63.6(e)(1)(ii)] and [40 CFR 63.6(e)(3)]	None.	None.	Other (provide description): Other Comply with requirement: Upon occurrence of event. Correct the malfunction as soon as practicable in accordance with the startup, shutdown, and malfunction plan. [40 CFR 63.6(e)(ii)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
35	<p>The owner or operator of an affected source must develop and implement a written startup, shutdown and malfunction plan that describes, in detail, procedures for operating and maintaining the source during periods of startup, shutdown, and malfunction; a program of corrective action for malfunctioning process; and APC and monitoring equipment used to comply with relevant standard. The plan must be developed by the source's compliance date for that relevant standard.</p> <p>The purpose of the startup, shutdown, and malfunction plan is to:</p> <p>(A) Ensure that, at all times, the owner or operator operates and maintains each affected source, including associated air pollution control and monitoring equipment, in a manner which satisfies the general duty to minimize emissions established by paragraph 40 CFR 63.6(e)(1)(i) ;</p> <p>(B) Ensure that owners or operators are prepared to correct malfunctions as soon as practicable after their occurrence in order to minimize excess emissions of hazardous air pollutants; and</p> <p>(C) Reduce the reporting burden associated with periods of startup, shutdown, and malfunction (including corrective action taken to restore malfunctioning process and air pollution control equipment to its normal or usual manner of operation). [40 CFR 63.6(e)(3)(i)]</p>	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
36	When actions taken by the owner or operator during a startup, shutdown, or malfunction (including actions taken to correct a malfunction) are consistent with the procedures specified in the affected source's startup, shutdown, and malfunction plan, the owner or operator must keep records for that event which demonstrate that the procedures specified in the plan were followed. These records may take the form of a checklist or other effective form of recordkeeping that confirms conformance with the startup, shutdown, and malfunction plan for that event. In addition, the owner or operator must keep records of these events as specified in 40 CFR 63.10(b), including records of the occurrence and duration of each startup, shutdown, or malfunction of operation and each malfunction of the air pollution control and monitoring equipment. Furthermore, the owner or operator shall confirm that actions taken during the relevant reporting period during periods of startup, shutdown, and malfunction were consistent with the affected source's startup, shutdown and malfunction plan in the semiannual (or more frequent) startup, shutdown, and malfunction report required in 40 CFR 63.10(d)(5). [40 CFR 63.6(e)(3)(iii)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall maintain relevant records for such source of: (i) The occurrence & duration of each startup, shutdown, or malfunction of operation (i.e., process equipment); (ii) The occurrence & duration of each malfunction of the required air pollution control (APC) and monitoring equipment; (iii) All required maintenance performed on the APC and monitoring equipment; (iv) Actions taken during periods of startup, shutdown, and malfunction (including corrective actions to restore malfunctioning process and APC and monitoring equipment to its normal or usual manner of operation) when such actions are different from the procedures specified in the affected source's startup, shutdown, and malfunction plan; (v) All information necessary to demonstrate conformance with the affected source's startup, shutdown, and malfunction plan when all actions taken during periods of startup, shutdown, and malfunction (including corrective actions to restore malfunctioning process and APC and monitoring equipment to its normal or usual manner of operation) are consistent with the procedures specified in such plan. (The information needed demonstrate conformance with the startup, shutdown, and malfunction plan may be recorded using a checklist or some other effective device). [40 CFR 63.6(e)(3)]	(semiannually). The startup, shutdown, or malfunction report shall consist of a letter containing: name, title, and signature of the owner or operator and shall be submitted to the Administrator. Submit reports in April and October of each year. The report shall only be required if a startup, shutdown, or malfunction occurred during the reporting period and shall identify any instance where any action taken by an owner or operator during startup, shutdown, or malfunction (including actions taken to correct a malfunction) is not consistent with the affected source's startup, shutdown, or malfunction plan, but the source does not exceed any applicable emission limitation in the relevant emission standard. Submit a report: As per the approved schedule. [40 CFR 63.10(d)(5)(i)]

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
37	If an action taken by the owner or operator during a startup, shutdown, or malfunction (including an action taken to correct a malfunction) is not consistent with the procedures specified in the affected source's startup, shutdown, and malfunction plan, and the source exceeds any applicable emission limitation in the relevant emission standard, then the owner or operator must record the actions taken for that event and must report such actions within 2 working days after commencing actions inconsistent with the plan, followed by a letter within 7 working days after the end of the event, in accordance with 40 CFR 63.10(d)(5) (unless the owner or operator makes alternative reporting arrangements, in advance, with the Administrator). [40 CFR 63.6(e)(3)(iv)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall maintain relevant records for such source of: (i) The occurrence & duration of each startup, shutdown, or malfunction of operation (i.e., process equipment); (ii) The occurrence & duration of each malfunction of the required air pollution control (APC) and monitoring equipment; (iii) All required maintenance performed on the APC and monitoring equipment; (iv) Actions taken during periods of startup, shutdown, and malfunction (including corrective actions to restore malfunctioning process and APC and monitoring equipment to its normal or usual manner of operation) when such actions are different from the procedures specified in the affected source's startup, shutdown, and malfunction plan; (v) All information necessary to demonstrate conformance with the affected source's startup, shutdown, and malfunction plan when all actions taken during periods of startup, shutdown, and malfunction (including corrective actions to restore malfunctioning process and APC and monitoring equipment to its normal or usual manner of operation) are consistent with the procedures specified in such plan. (The information needed to demonstrate conformance with the startup, shutdown, and malfunction plan may be recorded using a checklist or some other effective form of recordkeeping, in order to minimize the recordkeeping burden for conforming events). [40 CFR 63.10(b)(2)]	None.



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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
38	The owner or operator may periodically revise the startup, shutdown, and malfunction plan for the affected source as necessary to satisfy the requirements of this part or to reflect changes in equipment or procedures at the affected source. Unless the permitting authority provides otherwise, the owner or operator may make such revisions to the startup, shutdown, and malfunction plan without prior approval by the Administrator or the permitting authority. If the startup, shutdown, and malfunction plan fails to address or inadequately addresses an event that meets the characteristics of a malfunction but was not included in the startup, shutdown, and malfunction plan at the time the owner or operator developed the plan, the owner or operator must revise the startup, shutdown, and malfunction plan within 45 days after the event to include detailed procedures for operating and maintaining the source during similar malfunction events and a program of corrective action for similar malfunctions of process or air pollution control and monitoring equipment. [40 CFR 63.6(e)(3)(viii)]	None.	None.	. Each start up, shutdown and malfunction plan revision must be reported in the semiannual report required by 40 CFR 63.10(d)(5) and Submit a report: Upon occurrence of event. [40 CFR 63.6(e)(3)(viii)]
39	The nonopacity emission standards shall apply at all times except during periods of startup, shutdown, and malfunction. [40 CFR 63.6(f)(1)]	None.	None.	None.
40	Existing affected sources and area sources must comply with the requirements in 40 CFR 63.1955(b) and 40 CFR 63.1960 through 63.1980 by the date your landfill is required to install a collection and control system by 40 CFR 60.752(b)(2) of subpart WWW, the Federal plan, or EPA approved and effective State or tribal plan that applies to your landfill or by January 16, 2004, whichever occurs later. [40 CFR 63.1945(f)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
41	Demonstrate compliance with the operating conditions for control systems including continuous parameter monitoring data collected pursuant to [40 CFR 60.756(b)(1)] , (c)(1), and (d) of subpart WWW, are used to demonstrate compliance with the operating conditions for control systems. If a deviation occurs, you have failed to meet the control device operating conditions described in this subpart and have deviated from the requirements of this subpart. [40 CFR 63.1960]	Monitored by parametric monitoring system continuously. [40 CFR 63.1960]	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [40 CFR 63.1960]	Other (provide description): Other Comply with requirement: As per the approved schedule. [40 CFR 63.1980]
42	The owner/operator must develop and implement a written startup, shutdown, and malfunction (SSM) plan according to the provisions in 40 CFR 63.6(e)(3). [40 CFR 63.1960]	None.	Other: Maintain a current copy of the Startup, Shutdown, and Malfunction Plan (SSM) on site. [40 CFR 63.1960] &[40 CFR 63.1980].	The owner or operator shall report the actions taken for that event within 2 working days after commencing actions inconsistent with the plan followed by a letter within 7 working days after the end of the event. The immediate report required under this paragraph 40 CFR 63.10 (d)(5)(ii) shall consist of a telephone call (or facsimile (FAX) transmission) to the Administrator within 2 working days after commencing actions inconsistent with the plan, and it shall be followed by a letter, delivered or postmarked within 7 working days after the end of the event. Submit a report: Upon occurrence of event. [40 CFR 63.10(d)(5)(ii)]

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
43	For the purposes of the landfill monitoring and Startup, Shutdown, and Malfunction Plan (SSM) requirements, deviations (as defined in 40 CFR 63.1990) include the items in paragraphs (a) through (c) of this section. (a) A deviation occurs when the control device operating parameter boundaries described in 40 CFR 60.758(c)(1) of subpart WWW are exceeded. (b) A deviation occurs when 1 hour or more of the hours during the 3-hour block averaging period (refer to 40 CFR 63.1975) does not constitute a valid hour of data. A valid hour of data must have measured values for at least three 15-minute monitoring periods within the hour. (c) A deviation occurs when a SSM plan is not developed, implemented, or maintained on site. [40 CFR 63.1965]	None.	None.	Submit a report: Upon occurrence of event. The report shall consist of a telephone call or facsimile and shall be submitted within 2 working days after commencing action, followed by a letter delivered or postmarked within 7 working days after the end of the event. [40 CFR 63.10(d)(5)(ii)]

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
44	Each owner or operator shall submit reports every 6 months to the Administrator. For enclosed combustion devices and flares, reportable exceedances are defined under 40 CFR 60.758(c). [40 CFR 60.757(f)] & [40 CFR 63.1980(a)]	None.	None.	. The biannual reports shall include the following recorded information: (1) Value and length of time for exceedance of applicable parameters monitored under 40 CFR 60.756(a), 40 CFR 60.756(b), 40 CFR 60.756(c), and 40 CFR 60.756(d). (2) Description and duration of all periods when the gas stream is diverted from the control device through a bypass line or the indication of bypass flow as specified under 40 CFR 60.756. (3) Description and duration of all periods when the control device was not operating for a period exceeding 1 hour and length of time the control device was not operating. (4) All periods when the collection system was not operating in excess of 5 days. (5) The location of each exceedance of the 500 parts per million methane concentration as provided in 40 CFR 60.753(d) and the concentration recorded at each location for which an exceedance was recorded in the previous month. (6) The date of installation and the location of each well or collection system expansion added pursuant to [40CFR 60.755(a)(3)], [40CFR 60.755 (b)], and [40CFR 60.755 (c)(4)]. [40CFR 60.757(f)] & [40CFR 63.1980(a)] Submit a report: As per the approved schedule. [40 CFR 63.1980(a)]

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U30 Five (5) LFG Engines with a Gas Conditioning, Skid System and a Temperature Swing Adsorber (TSA) System

**Operating Scenario:** OS21 Engine # 1 firing Landfill Gas, Start-up Periods, OS22 Engine # 2 firing Landfill Gas, Start-up Periods, OS23 Engine # 3 firing Landfill Gas, Start-up Periods, OS24 Engine # 4 firing Landfill Gas, Start-up Periods, OS25 Engine # 5 firing Landfill Gas, Start-up Periods

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The lb/hr emission limits that apply during normal operation (OS11, OS12, OS13, OS14 and OS15) shall apply at all times including start-up periods based a one hour averaging period. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	The duration of the startup period shall be twenty minutes or less. [N.J.A.C. 7:27-22.16(e)]	Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall record the startup duration for each startup. [N.J.A.C. 7:27-22.16(o)]	None.

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Facility Specific Requirements**

**Emission Unit:** U36 Trommel Screen for Wood Chips and Landfill Cover

**Operating Scenario:** OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.12 tons/yr. Maximum annual emissions from operating permit modification application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	NOx (Total) <= 0.87 tons/yr. Maximum annual emissions from operating permit modification application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	CO <= 1.07 tons/yr. Maximum annual emissions from operating permit modification application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	SO2 <= 0.13 tons/yr. Maximum annual emissions from operating permit modification application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	TSP <= 3.36 tons/yr. Maximum annual emissions from operating permit modification application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-10 (Total) <= 1.21 tons/yr. Maximum annual emissions from operating permit modification application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Hours of Operation <= 500 hr/yr. Maximum annual hours of operation from operating permit modification application. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	Hours of Operation: Recordkeeping by manual logging of parameter each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
8	Material processed limited to wood chips and landfill cover from operating permit modification application. [N.J.A.C. 7:27-22.16(a)]	Other: Review of production records.[N.J.A.C. 7:27-22.16(o)].	Other: Production records.[N.J.A.C. 7:27-22.16(o)].	None.

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**New Jersey Department of Environmental Protection**  
**Facility Specific Requirements**

**Emission Unit:** U36 Trommel Screen for Wood Chips and Landfill Cover

**Operating Scenario:** OS1 Trommel Screen No. 1 Engine

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 %. Exclusive of visible condensed water, for a period of more than 10 consecutive seconds. [N.J.A.C. 7:27-3.5]	Opacity: Monitored by visual determination each month during operation, based on an instantaneous determination. For compliance with the opacity standard, the permittee shall conduct visual opacity inspections during daylight hours. Visual inspections shall consist of a visual survey to identify if the stack has visible emissions, (other than condensed water vapor), greater than the prescribed standard. If visible emissions are observed, the permittee shall do the following: (1) Verify that the equipment and/or control device causing the emission is operating according to manufactures specifications and the operating permit compliance plan. If the equipment or control device is not operating properly, the permittee shall take corrective action immediately to eliminate the excess emissions. The permittee must report any permit violations to NJDEP pursuant to N.J.A.C. 7:27-22.19. (2) If the corrective action taken in step (1) does not correct the opacity problem within 24 hours, the applicant shall perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2. Such test shall be conducted each day until corrective action is taken to successfully correct the opacity problem. [N.J.A.C. 7:27-22.16(o)]	Opacity: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The owner or operator shall log in a logbook and retain the following records: (1) Date and time of inspection; (2) Emission Point number; (3) Operational status of equipment; (4) Observed results and conclusions; (5) Description of corrective action taken if needed; (6) Date and time opacity problem was solved, if applicable; (7) N.J.A.C. 7:27B-2 results if conducted; and (8) Name of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]	None.
2	Particulate Emissions <= 1.05 lb/hr. Maximum emission limit based on heat input. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	Sulfur Content in Fuel <= 0.2 weight %. Maximum sulfur content for Zone 3. [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records once per bulk fuel shipment showing sulfur content. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading once per bulk fuel shipment showing sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	VOC (Total) <= 0.49 lb/hr. Maximum emission limit from operating permit modification application based on manufacturer's emission factors. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	NOx (Total) <= 3.46 lb/hr. Maximum emission limit from operating permit modification application based on manufacturer's emission factors. [N.J.A.C. 7:27-22.16(a)]	<p>NOx (Total): Monitored by periodic emission monitoring annually. The periodic monitoring procedure shall be carried out in accordance with the procedure specified in the latest version of Department's technical manual TM1005 at the same time that the CO is being monitored.</p> <p>If the PMP test result exceeds the permit limit, the permittee shall do the following:</p> <p>(1) Verify that the equipment and/or control device is operating according to manufacturer's specifications and the operating permit compliance plan. If the equipment or control device is not operating properly, the permittee shall take corrective action immediately to eliminate the excess emissions.</p> <p>(2) If the corrective action taken in step (1) does not correct the problem within 24 hours, the applicant shall perform a repeat the PMP test. Such test shall be conducted each day until corrective action is taken to successfully correct the problem. [N.J.A.C. 7:27-22.16(o)]</p>	<p>NOx (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system annually. The owner or operator shall record and retain the following periodic emission monitoring records:</p> <p>(1) Date and time of periodic emission monitoring.  (2) The name, title and affiliation of the person who performed the monitoring.  (3) The periodic emission monitoring results and the calculations used to convert to lb/hr.  (4) Description of corrective action taken if needed.  (5) Date and time emission exceedance problem was corrected, if applicable.  [N.J.A.C. 7:27-22.16(o)]</p>	None.



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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	CO <= 4.29 lb/hr. Maximum emission limit from operating permit modification application based manufacturer's emission factors. [N.J.A.C. 7:27-22.16(a)]	<p>CO: Monitored by periodic emission monitoring annually. The periodic monitoring procedure shall be carried out in accordance with the procedure specified in the latest version of Department's technical manual TM1005 at the same time that the NOx is being monitored.</p> <p>If the PMP test result exceeds the permit limit, the permittee shall do the following:</p> <p>(1) Verify that the equipment and/or control device is operating according to manufacturer's specifications and the operating permit compliance plan. If the equipment or control device is not operating properly, the permittee shall take corrective action immediately to eliminate the excess emissions.</p> <p>(2) If the corrective action taken in step (1) does not correct the problem within 24 hours, the applicant shall perform a repeat the PMP test. Such test shall be conducted each day until corrective action is taken to successfully correct the problem. [N.J.A.C. 7:27-22.16(o)]</p>	<p>CO: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. The owner or operator shall record and retain the following periodic emission monitoring records:</p> <p>(1) Date and time of periodic emission monitoring.</p> <p>(2) The name, title and affiliation of the person who performed the monitoring.</p> <p>(3) The periodic emission monitoring results and the calculations used to convert to lb/hr.</p> <p>(4) Description of corrective action taken if needed.</p> <p>(5) Date and time emission exceedance problem was corrected, if applicable. [N.J.A.C. 7:27-22.16(o)]</p>	None.
7	SO2 <= 0.51 lb/hr. Maximum emission limit from operating permit modification application based AP42 Chapter 3 emission factors. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	TSP <= 0.2 lb/hr. Maximum emission limit from operating permit modification application based manufacturer's emission factors. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	PM-10 (Total) <= 0.2 lb/hr. Maximum emission limit from operating permit modification application based manufacturer's emission factors. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	Maximum Gross Heat Input <= 1.75 MMBTU/hr (HHV). Maximum gross heat input from operating permit modification application. [N.J.A.C. 7:27-22.16(a)]	Other: Fuel Burner Rated Capacity.[N.J.A.C. 7:27-22.16(o)].	None.	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U36 Trommel Screen for Wood Chips and Landfill Cover

**Operating Scenario:** OS2 Trommel Screen No. 1

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 11.81 lb/hr. Maximum emission limit from operating permit modification application based on 0.025 lb/ton of material processed from AP-42 11.19.2.1. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	PM-10 (Total) <= 4.11 lb/hr. Maximum emission limit from operating permit modification application based on 0.0087 lb/ton of material processed from AP-42 11.19.2.1. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Total Production Rate <= 472.5 tons/hr. Maximum hourly process rate from operating permit modification application BOP090002 based on maximum design capacity. [N.J.A.C. 7:27-22.16(a)]	Other: Review of manufacturer's specifications.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain readily accessible copies of manufacturer's specification.[N.J.A.C. 7:27-22.16(o)].	None.

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**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U36 Trommel Screen for Wood Chips and Landfill Cover

**Operating Scenario:** OS3 Trommel Screen No. 1 Conveyor

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 1.42 lb/hr. Maximum emission limit from operating permit modification application based on 0.003 lb/ton of material processed from AP-42 11.19.2.1. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	PM-10 (Total) <= 0.52 lb/hr. Maximum emission limit from operating permit modification application based on 0.0011 lb/ton of material processed from AP-42 11.19.2.1. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Total Production Rate <= 472.5 tons/hr. Maximum hourly process rate from operating permit modification application BOP090002 based on maximum design capacity. [N.J.A.C. 7:27-22.16(a)]	Other: Review of manufacturer's specifications.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain readily accessible copies of manufacturer's specification.[N.J.A.C. 7:27-22.16(o)].	None.

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**New Jersey Department of Environmental Protection**  
**Facility Specific Requirements**

Emission Unit: U37 Co-composting trommel screen

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 1.83 tons/yr. Maximum annual emissions from operating permit modification application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	NOx (Total) <= 1.83 tons/yr. Maximum annual emissions from operating permit modification application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	CO <= 0.21 tons/yr. Maximum annual emissions from operating permit modification application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	SO2 <= 0.38 tons/yr. Maximum annual emissions from operating permit modification application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	TSP <= 2.39 tons/yr. Maximum annual emissions from operating permit modification application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-10 (Total) <= 0.88 tons/yr. Maximum annual emissions from operating permit modification application. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	Hours of Operation <= 2,080 hr/yr. Maximum annual hours of operation from operating permit modification application. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	Hours of Operation: Recordkeeping by manual logging of parameter each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
8	Material processed limited to finished compost from operating permit modification application. [N.J.A.C. 7:27-22.16(a)]	Other: Review of production records.[N.J.A.C. 7:27-22.16(o)].	Other: Production records.[N.J.A.C. 7:27-22.16(o)].	None.

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**New Jersey Department of Environmental Protection**  
**Facility Specific Requirements**

Emission Unit: U37 Co-composting trommel screen

Operating Scenario: OS1 Internal Combustion Engine on Co-compositng trommel screen

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 %. Exclusive of visible condensed water, for a period of more than 10 consecutive seconds. [N.J.A.C. 7:27-3.5]	Opacity: Monitored by visual determination each month during operation, based on an instantaneous determination. For compliance with the opacity standard, the permittee shall conduct visual opacity inspections during daylight hours. Visual inspections shall consist of a visual survey to identify if the stack has visible emissions, (other than condensed water vapor), greater than the prescribed standard. If visible emissions are observed, the permittee shall do the following: (1) Verify that the equipment and/or control device causing the emission is operating according to manufactures specifications and the operating permit compliance plan. If the equipment or control device is not operating properly, the permittee shall take corrective action immediately to eliminate the excess emissions. The permittee must report any permit violations to NJDEP pursuant to N.J.A.C. 7:27-22.19. (2) If the corrective action taken in step (1) does not correct the opacity problem within 24 hours, the applicant shall perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2. Such test shall be conducted each day until corrective action is taken to successfully correct the opacity problem. [N.J.A.C. 7:27-22.16(o)]	Opacity: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The owner or operator shall log in a logbook and retain the following records: (1) Date and time of inspection; (2) Emission Point number; (3) Operational status of equipment; (4) Observed results and conclusions; (5) Description of corrective action taken if needed; (6) Date and time opacity problem was solved, if applicable; (7) N.J.A.C. 7:27B-2 results if conducted; and (8) Name of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]	None.
2	Sulfur Content in Fuel <= 0.2 weight %. Maximum sulfur content for Zone 3. [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records once per bulk fuel shipment showing sulfur content. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading once per bulk fuel shipment showing sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.

BOP100001

**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	VOC (Total) <= 1.76 lb/hr. Maximum emission limit from operating permit modification application based on manufacturer's emission factors. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	NOx (Total) <= 1.76 lb/hr. Maximum emission limit from operating permit modification application based on manufacturer's emission factors. [N.J.A.C. 7:27-22.16(a)]	<p>NOx (Total): Monitored by periodic emission monitoring annually. The periodic monitoring procedure shall be carried out in accordance with the procedure specified in the latest version of Department's technical manual TM1005 at the same time that the CO is being monitored.</p> <p>If the PMP test result exceeds the permit limit, the permittee shall do the following:</p> <p>(1) Verify that the equipment and/or control device is operating according to manufacturer's specifications and the operating permit compliance plan. If the equipment or control device is not operating properly, the permittee shall take corrective action immediately to eliminate the excess emissions.</p> <p>(2) If the corrective action taken in step (1) does not correct the problem within 24 hours, the applicant shall perform a repeat the PMP test. Such test shall be conducted each day until corrective action is taken to successfully correct the problem. [N.J.A.C. 7:27-22.16(o)]</p>	<p>NOx (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall record and retain the following periodic emission monitoring records:</p> <p>(1) Date and time of periodic emission monitoring.  (2) The name, title and affiliation of the person who performed the monitoring.  (3) The periodic emission monitoring results and the calculations used to convert to lb/hr.  (4) Description of corrective action taken if needed.  (5) Date and time emission exceedance problem was corrected, if applicable.  [N.J.A.C. 7:27-22.16(o)]</p>	None.

BOP100001

**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	CO <= 0.2 lb/hr. Maximum emission limit from operating permit modification application based manufacturer's emission factors. [N.J.A.C. 7:27-22.16(a)]	<p>CO: Monitored by periodic emission monitoring annually. The periodic monitoring procedure shall be carried out in accordance with the procedure specified in the latest version of Department's technical manual TM1005 at the same time that the NOx is being monitored.</p> <p>If the PMP test result exceeds the permit limit, the permittee shall do the following:</p> <p>(1) Verify that the equipment and/or control device is operating according to manufacturer's specifications and the operating permit compliance plan. If the equipment or control device is not operating properly, the permittee shall take corrective action immediately to eliminate the excess emissions.</p> <p>(2) If the corrective action taken in step (1) does not correct the problem within 24 hours, the applicant shall perform a repeat the PMP test. Such test shall be conducted each day until corrective action is taken to successfully correct the problem. [N.J.A.C. 7:27-22.16(o)]</p>	<p>CO: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall record and retain the following periodic emission monitoring records:</p> <p>(1) Date and time of periodic emission monitoring.</p> <p>(2) The name, title and affiliation of the person who performed the monitoring.</p> <p>(3) The periodic emission monitoring results and the calculations used to convert to lb/hr.</p> <p>(4) Description of corrective action taken if needed.</p> <p>(5) Date and time emission exceedance problem was corrected, if applicable. [N.J.A.C. 7:27-22.16(o)]</p>	None.
6	SO2 <= 0.2 lb/hr. Maximum emission limit from operating permit modification application based AP42 Chapter 3 emission factors. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	TSP <= 0.06 lb/hr. Maximum emission limit from operating permit modification application based manufacturer's emission factors. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-10 (Total) <= 0.06 lb/hr. Maximum emission limit from operating permit modification application based manufacturer's emission factors. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.



BOP100001

**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	Maximum Gross Heat Input <= 0.44 MMBTU/hr (HHV). Maximum gross heat input from operating permit modification application. [N.J.A.C. 7:27-22.16(a)]	Other: Fuel Burner Rated Capacity.[N.J.A.C. 7:27-22.16(o)].	None.	None.

BOP100001

**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U37 Co-composting trommel screen

**Operating Scenario:** OS2 Co-composting trommel screen

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 2 lb/hr. Maximum emission limit from operating permit modification application based on 0.025 lb/ton of material processed from AP-42 11.19.2.1. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	PM-10 (Total) <= 0.7 lb/hr. Maximum emission limit from operating permit modification application based on 0.70 lb/ton of material processed from AP-42 11.19.2.1. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Total Production Rate <= 200 yards per hour. Maximum hourly process rate from operating permit modification application BOP090002 based on maximum design capacity. [N.J.A.C. 7:27-22.16(a)]	Other: Review of manufacturer's specifications.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain readily accessible copies of manufacturer's specification.[N.J.A.C. 7:27-22.16(o)].	None.

BOP100001

**New Jersey Department of Environmental Protection  
Facility Specific Requirements**

**Emission Unit:** U37 Co-composting trommel screen

**Operating Scenario:** OS3 Discharge Conveyor on trommel screen

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 0.24 lb/hr. Maximum emission limit from operating permit modification application based on 0.003 lb/ton of material processed from AP-42 11.19.2.1. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	PM-10 (Total) <= 0.09 lb/hr. Maximum emission limit from operating permit modification application based on 0.0011 lb/ton of material processed from AP-42 11.19.2.1. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Total Production Rate <= 200 yards per hour. Maximum hourly process rate from operating permit modification application BOP090002 based on maximum design capacity. [N.J.A.C. 7:27-22.16(a)]	Other: Review of manufacturer's specifications.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain readily accessible copies of manufacturer's specification.[N.J.A.C. 7:27-22.16(o)].	None.

**New Jersey Department of Environmental Protection**  
**Facility Profile (General)**

**Facility Name (AIMS):** Burlington County Resource Recovery Compl      **Facility ID (AIMS):** 45949

**Street**    21939 Columbus Road  
**Address:** Mansfield, NJ   08022

**Mailing** Burlington County Chosen Freeholders  
**Address:** 49 Rancocas Road  
             P.O. Box 6000  
             Mount Holly, NJ   08060-6000

**County:**        Burlington  
**Location**      Exit Interstate 295 at Florence-Columbus  
**Description:** Interchange; travel towards Columbus; follow  
                         signs to BCRRC

<b>State Plane Coordinates:</b>	
<b>X-Coordinate:</b>	519,790
<b>Y-Coordinate:</b>	4,435,750
<b>Units:</b>	Meters
<b>Datum:</b>	NAD27
<b>Source Org.:</b>	Other/Unknown
<b>Source Type:</b>	Other/Unknown

<b>Industry:</b>	
<b>Primary SIC:</b>	4953
<b>Secondary SIC:</b>	4959
<b>NAICS:</b>	562212

**New Jersey Department of Environmental Protection**  
**Facility Profile (General)**

**Contact Type: BOP - Operating Permits**

**Organization:** Burlington County Department of Solid Waste      **Org. Type:** Local  
**Name:** Jerome Sheehan      **NJ EIN:** 00216000107  
**Title:** Director, Dept of Solid Waste  
**Phone:** (609) 499-1001 x0273      **Mailing Address:** PO Box 429  
**Fax:** (609) 499-5212 x      P.O.Box 429  
**Other:** ( ) - x      Columbus, NJ 08022  
**Type:**  
**Email:** jsheehan@co.burlington.nj.us

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**Contact Type: Consultant**

**Organization:** Birdsall Services Group      **Org. Type:** Private  
**Name:** Tiffany L. Medley, Ph.D      **NJ EIN:**  
**Title:** Senior Project Manager  
**Phone:** (845) 695-0265 x      **Mailing Address:** Tiffany L. Medley, Ph.D  
**Fax:** (845) 692-5894 x      Cornerstone Environmental Group  
**Other:** (732) 986-6708 x      754 Route 18, Suite 104  
**Type:** Mobile      East Brunswick, NJ 08816  
**Email:** Tiffany.Medley@CornerstoneEG.com

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**Contact Type: Emergency Responder**

**Organization:** Burlington County Department of Solid Waste      **Org. Type:** County/Municipal  
**Name:** Laurie E. Van Genderen      **NJ EIN:** 00216000107  
**Title:** Senior Environmental Specialist  
**Phone:** (609) 499-1001 x0275      **Mailing Address:** PO Box 429  
**Fax:** ( ) - x      Columbus, NJ 08022  
**Other:** ( ) - x  
**Type:**  
**Email:** LVangenderen@co.burlington.nj.us

**New Jersey Department of Environmental Protection**  
**Facility Profile (General)**

**Contact Type: Emission Statements**

**Organization:** Burlington County Department of Solid Waste      **Org. Type:** Local  
**Name:** Jerome Sheehan      **NJ EIN:** 00216000107  
**Title:** Director, Dept of Solid Waste  
**Phone:** (609) 499-1001 x0273      **Mailing Address:** PO Box 429  
**Fax:** (609) 499-5212 x      Columbus, NJ 08022  
**Other:** ( ) - x  
**Type:**  
**Email:** jsheehan@co.burlington.nj.us

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**Contact Type: Environmental Officer**

**Organization:** Burlington County Department of Solid Waste      **Org. Type:** County/Municipal  
**Name:** Laurie E. Van Genderen      **NJ EIN:** 00216000107  
**Title:** Senior Environmental Specialist  
**Phone:** (609) 499-1001 x0275      **Mailing Address:** PO Box 429  
**Fax:** ( ) - x      Columbus, NJ 08022  
**Other:** ( ) - x  
**Type:**  
**Email:** LVangenderen@co.burlington.nj.us

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**Contact Type: Fees/Billing Contact**

**Organization:** Burlington County Department of Solid Waste      **Org. Type:** Local  
**Name:** Jerome Sheehan      **NJ EIN:** 00216000107  
**Title:** Director, Dept of Solid Waste  
**Phone:** (609) 499-1001 x0273      **Mailing Address:** PO Box 429  
**Fax:** (609) 499-5212 x      49 Rancocas Road  
**Other:** ( ) - x      P.O.Box 6000  
Columbus, NJ 08022  
**Type:**  
**Email:** jsheehan@co.burlington.nj.us

**New Jersey Department of Environmental Protection**  
**Facility Profile (General)**

**Contact Type: General Contact**

**Organization:** Burlington County Department of Solid Waste

**Org. Type:** Local

**Name:** Jerome Sheehan

**NJ EIN:** 00216000107

**Title:** Director, Dept of Solid Waste

**Phone:** (609) 499-1001 x0273

**Mailing**

PO Box 429

**Fax:** (609) 499-5212 x

**Address:**

49 Rancocas Road

**Other:** ( ) - x

P.O.Box 6000

Columbus, NJ 08022

**Type:**

**Email:** jsheehan@co.burlington.nj.us

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**Contact Type: Operator**

**Organization:** Burlington County Board of Chosen Freeholders

**Org. Type:**

**Name:**

**NJ EIN:**

**Title:**

**Phone:** ( ) - x

**Mailing**

**Address:**

**Fax:** ( ) - x

**Other:** ( ) - x

**Type:**

**Email:**

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**Contact Type: Owner (Current Primary)**

**Organization:** Burlington County Board of Chosen Freeholders

**Org. Type:** Local

**Name:** Burlington County

**NJ EIN:** 00216000107

**Title:** County

**Phone:** (609) 265-5021 x

**Mailing**

49 Rancocas Road

**Fax:** (609) 702-7000 x

**Address:**

P.O. Box 6000

**Other:** ( ) - x

Mount Holly, NJ 08060-6000

**Type:**

**Email:**

**New Jersey Department of Environmental Protection**  
**Facility Profile (General)**

**Contact Type:** Responsible Official

**Organization:** Burlington County Board of Chosen Freeholders

**Org. Type:** County

**Name:** Paul Drayton

**NJ EIN:** 00216000107

**Title:** County Administrator

**Phone:** (609) 265-5020 x

**Mailing Address:** 49 Rancocas Road

**Fax:** (609) 702-7000 x

P.O. Box 6000  
Mount Holly, NJ 08060-6000

**Other:** ( ) - x

**Type:**

**Email:** pdrayton@co.burlington.nj.us



**New Jersey Department of Environmental Protection  
Reason for Application**

**Permit Being Modified**

**Permit Class:** BOP      **Number:** 80002

**Description of Modifications:** Burlington County Resource Recovery Complex (BCRRC) is proposing to install a new gas conditioning system (Venture system) as a pre-treatment device in the landfill gas stream prior to the LFG engines for removal of siloxanes. The existing TSA system will act as a second stage polishing treatment for the landfill gas prior to entering into the LFG engines. The TSA can also operate as primary gas treatment devices. A new flare will also be installed as a standby device for this specific set of equipment at BCRRC.

The following changes are proposed for the current Title V permit and included in this application:

- Since the Gas Conditioning system is a "pre-treatment device", the Emission Unit U30 has been renamed to "Five (5) LFG Engines with a Gas Conditioning System and a Temperature Swing Adsorber (TSA) System" This unit is not controlling emissions from the engines.
- During desorption of the Gas Conditioning System and TSA, offgas will now be vented to a NEW enclosed flare CD9 (Flare No. 6) instead of the candlestick flare (CD8). A new emission point (PT46) has been added in this application. The PTE from the new flare is added as two new operating scenarios, for normal operation and start up operation at U30-OS16, and OS26 in the operating permit.
- Update N.J.A.C.7:27-19 requirement in U4-OS1.

**BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX (45949)**  
**BOP100001**

Date: 01/16/2014

**New Jersey Department of Environmental Protection**  
**Non-Source Fugitive Emissions**

FG NJID	Description of Activity Causing Emission	Location Description	Reasonable Estimate of Emissions (tpy)								
			VOC (Total)	NOx	CO	SO	TSP (Total)	PM-10	Pb	HAPS (Total)	Other (Total)
FG1	Dust from Working Face of Landfill	Area 1 and Area 2 of Landfill					110.000	109.900			
FG2	Dust from on-site Roadways	On-site Roadways					319.700	73.500			
FG4	12,000 Gallons Liquid Propane Tank	Green House									
Total			0.000	0.000	0.000	0.000	429.700	183.400	0.000	0.00000000	0.000

**BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX (45949)**  
**BOP100001**

Date: 1/16/2014

**New Jersey Department of Environmental Protection**  
**Insignificant Source Emissions**

IS NJID	Source/Group Description	Equipment Type	Location Description	Estimate of Emissions (tpy)								
				VOC (Total)	NOx	CO	SO	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS1	One 1,000 Gallons Gasoline Tank (UST)	Storage Vessel	Maintenance Garage									
IS2	One 10,000 Gallons Diesel Fuel Tank (UST)	Storage Vessel	Maintenance Garage									
IS3	One 275 Gallons Diesel Fuel Tank (AST)	Storage Vessel	Operations Staging Area									
IS5	One 550 Gallons Diesel Fuel Tank (AST)	Storage Vessel	Bulky Materials Storage Center									
IS6	One 550 Gallons Diesel Fuel Tank (AST)	Storage Vessel	Co-Composting Facility									
IS7	One 300 Gallons Diesel Fuel Tank (AST)	Storage Vessel	Wastewater Treatment Facility									
IS8	One 285 Gallons Diesel Fuel Tank (AST)	Storage Vessel	Co-Composting Facility									
IS13	One 275 Gallons Diesel Fuel Tank (AST)	Storage Vessel	Operations Staging Area									
IS15	One 1,000 Gallons Waste Oil Tank (AST)	Storage Vessel	Household Hazardous Waste Facility									
IS16	One 550 Gallons Waste Oil Tank (UST)	Storage Vessel	Maintenance Garage									
IS20	8 Units - CO2 Generators (NG) each 60,000 Btu/hour	Fuel Combustion Equipment (Other)	Greenhouse									

**BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX (45949)**  
**BOP100001**

Date: 1/16/2014

**New Jersey Department of Environmental Protection**  
**Insignificant Source Emissions**

IS NJID	Source/Group Description	Equipment Type	Location Description	Estimate of Emissions (tpy)								
				VOC (Total)	NOx	CO	SO	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS21	One Water Heater (NG) 200,000 Btu/hour	Fuel Combustion Equipment (Other)	Greenhouse									
IS22	One Central Heating Unit (LPG) 60,000 Btu/hour	Fuel Combustion Equipment (Other)	Contract Operator's Trailer									
IS23	6 Units - Radiant Space Heating Tube (LPG) each 60,000 Btu/hour	Fuel Combustion Equipment (Other)	Maintenance Garage									
IS30	One 500 Gallons Soils Blending Tank	Storage Vessel										
IS31	One 550 Gallon Motor Oil Tank	Storage Vessel	LFG to Energy Facility	0.000								
IS32	One 275 Gallon Used Oil Tank	Storage Vessel	LFG to Energy Facility	0.000								
IS33	One 120 Gallon TSA Condensate Tank	Storage Vessel	LFG to Energy Facility	0.000								
IS34	One 90 Gallon Diesel Tank on Screen	Storage Vessel	Co-composting Facility	0.000								
IS35	One - LPG Ford Engine Generator Model 300GF-6005-A (616,000 Btu/hr) < 37kW	Stationary Reciprocating Engine	Co-composting Facility	0.000	0.010	0.010	0.000	0.000	0.000			
IS37	One - Greenhouse Generator (886,000 Btu/hr)	Emergency Generator	Greenhouse	0.030	0.380	0.030	0.030	0.030	0.030			

**BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX (45949)**  
**BOP100001**

Date: 1/16/2014

**New Jersey Department of Environmental Protection**  
**Insignificant Source Emissions**

IS NJID	Source/Group Description	Equipment Type	Location Description	Estimate of Emissions (tpy)								
				VOC (Total)	NOx	CO	SO	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS38	One 190 Gallon Fuel Tank for Generator	Storage Vessel	Greenhouse	0.000								
IS39	One Fire Pump Diesel Engine (643,900 Btu/hr)	Emergency Generator	Co-composting Facility	0.000	0.030	0.010	0.000	0.000	0.000			
IS40	One 500 Pound per Day Anaerobic Digester	Manufacturing and Materials Handling Equipment	Greenhouse	0.000	0.000	0.000	0.000	0.000	0.000			
IS41	One 300 Gallon Feed Hopper	Storage Vessel	Greenhouse	0.000								
IS42	One 300 Gallon Pre-Heat Tank	Storage Vessel	Greenhouse	0.000								
IS43	One 200 Gallon Digestive Storage Tank	Storage Vessel	Greenhouse	0.000								
IS44	One Used Oil Furnace	Fuel Combustion Equipment (Other)		0.006	0.213	0.053	0.002	0.002	0.002			
IS45	One Horizontal 250 Gallon Tank "Distillate Fuel Oil #2"	Storage Vessel		0.000								
Total				0.036	0.633	0.103	0.032	0.032	0.032	0.000	0.00000000	0.000

**New Jersey Department of Environmental Protection  
Equipment Inventory**

<b>Equip. NJID</b>	<b>Facility's Designation</b>	<b>Equipment Description</b>	<b>Equipment Type</b>	<b>Certificate Number</b>	<b>Install Date</b>	<b>Grand- Fathered</b>	<b>Last Mod. (Since 1968)</b>	<b>Equip. Set ID</b>
E1	Carbon Silo	Carbon silo (4,400 ft^3)	Storage Vessel	099227 PCP960003	2/1/1989	No	2/1/1989	
E2	Sludge Tank	Aerated sludge tank (35,500 gallon)	Manufacturing and Materials Handling Equipment	101091 01905211 PCP960001	2/1/1989	No	5/1/1991	
E3	Aeration Tnk	Main aeration tank (190,700 gallon)	Manufacturing and Materials Handling Equipment	101092 01905211 PCP960004	2/1/1989	No	2/1/1989	
E4	Storage Tank	Leachate Storage Tank (200,000 gallon)	Storage Vessel	110427 PCP960002 01904688	2/1/1989	No	2/1/1989	
E5	Surge Tank	Leachate surge tank (200,000 gallon)	Storage Vessel	123622 PCP96011 01951641	8/1/1996	No	8/1/1996	
E6	CAT Gen	Caterpillar generator	Stationary Reciprocating Engine	PCP980003	12/1/1991	No	12/1/1991	
E8	Kohler EG	Kohler generator	Emergency Generator	PCP980005	2/1/1989	No	2/1/1989	
E9	Ghouse boil	Greenhouse boiler	Boiler	PCP030001	10/1/1994	No	4/8/2003	
E10	Landfill	Landfill area 1 and area 2	Landfill	0318000167 PCP030003	1/1/1989	No	1/1/1989	
E11	CCF	Co-Composting facility	Other Equipment	128185	5/1/1998	No	5/1/1998	
E13	Tub Gr. ICE	Diesel Engine on Tub Grinder	Stationary Reciprocating Engine	PCP980006 & PCP030006	11/1/1998	No	11/1/1998	

**New Jersey Department of Environmental Protection  
Equipment Inventory**

<b>Equip. NJID</b>	<b>Facility's Designation</b>	<b>Equipment Description</b>	<b>Equipment Type</b>	<b>Certificate Number</b>	<b>Install Date</b>	<b>Grand- Fathered</b>	<b>Last Mod. (Since 1968)</b>	<b>Equip. Set ID</b>
E17	Tub Grinder	Hammermill	Manufacturing and Materials Handling Equipment	PCP980006 & PCP030006	11/1/1998	No	11/1/1998	
E18	Conveyor	Stacking Conveyor	Manufacturing and Materials Handling Equipment	PCP980006 & PCP030006	11/1/1998	No	11/1/1998	
E19	LST No3	Leachate Storage Tank No. 3 (1 million gallons)	Storage Vessel	BOP090001	1/1/2010	No		
E23	Micro5	Microturbine 5	Combustion Turbine	BOP070001	1/1/2007	No	1/1/2007	
E26	CCF Heater 1	Co-Composting Facility Heater 1	Process Heater	BOP050001	1/1/2004	No		
E27	CCF Heater 2	Co-Composting Facility Heater 2	Process Heater	BOP050001	1/1/2004	No		
E31	LFG-Eng#1	LFG Reciprocating Engine # 1	Stationary Reciprocating Engine	BOP050001		No		
E32	LFG-Eng#2	LFG Reciprocating Engine # 2	Stationary Reciprocating Engine	BOP050001		No		
E33	LFG-Eng#3	LFG Reciprocating Engine # 3	Stationary Reciprocating Engine	BOP050001		No		
E34	LFG-Eng#4	LFG Reciprocating Engine # 4	Stationary Reciprocating Engine	BOP050001		No		
E35	LFG-Eng#5	LFG Reciprocating Engine # 5	Stationary Reciprocating Engine	BOP050001		No		
E36	TS ICE 1	Trommel Screen 1 ICE	Stationary Reciprocating Engine		3/1/2004			

**New Jersey Department of Environmental Protection  
Equipment Inventory**

<b>Equip. NJID</b>	<b>Facility's Designation</b>	<b>Equipment Description</b>	<b>Equipment Type</b>	<b>Certificate Number</b>	<b>Install Date</b>	<b>Grand- Fathered</b>	<b>Last Mod. (Since 1968)</b>	<b>Equip. Set ID</b>
E37	Trommel 1	Trommel Screen 1	Manufacturing and Materials Handling Equipment		3/1/2004			
E38	Trom Conv 1	Trommel Screen 1 Discharge Conveyor	Manufacturing and Materials Handling Equipment		3/1/2004			
E39	TS ICE 2	Trommel Screen 2 ICE	Stationary Reciprocating Engine		3/1/2009			
E40	Trommel 2	Trommel Screen 2	Manufacturing and Materials Handling Equipment		4/1/2009			
E41	Trom Conv 2	Trommel Screen 2 Discharge Conveyor	Manufacturing and Materials Handling Equipment		4/1/2009			
E501	EqualTank	Aerated Equalization Tank 30,000 gallon	Manufacturing and Materials Handling Equipment	PCP960004 01905211		No		
E502	AerationTk	Aerated Secondary Aeration Tank 35,800 gallon	Manufacturing and Materials Handling Equipment	PCP960004 01905211		No		
E2201	Micro-1	Microturbine	Combustion Turbine	PCP030005	3/1/2003	No	3/1/2003	
E2202	Micro-2	Microturbine	Combustion Turbine	PCP030005	3/1/2003	No	3/1/2003	
E2203	Micro-3	Microturbine	Combustion Turbine	PCP030005	3/1/2003	No	3/1/2003	
E2204	Micro-4	Microturbine	Combustion Turbine	PCP030005	3/1/2003	No	3/1/2003	



**BOP100001**

**New Jersey Department of Environmental Protection  
Equipment Inventory**

<b>Equip. NJID</b>	<b>Facility's Designation</b>	<b>Equipment Description</b>	<b>Equipment Type</b>	<b>Certificate Number</b>	<b>Install Date</b>	<b>Grand- Fathered</b>	<b>Last Mod. (Since 1968)</b>	<b>Equip. Set ID</b>
E2205	Eng Pretrmt	Pretreatment Devices TSA & Venture off gas	Other Equipment	BOP100001				

What type of contents is this storage vessel equipped to contain by design?

Solids Only

Storage Vessel Type:

Silo

Design Capacity:

4,400

Units:

ft^3

Ground Location:

Above Ground

Is the Shell of the Equipment

Exposed to Sunlight?

Shell Color:

Description (if other):

Shell Condition:

Light Rust

Paint Condition:

Shell Construction:

Welded

Is the Shell Insulated?

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:

Shape of Storage Vessel:

Cylindrical

Shell Height (From Ground to Roof Bottom) (ft):

39.00

Length (ft):

Width (ft):

Diameter (ft):

12.00

Other Dimension

Description:

NA

Value:

Units:

Fill Method:

Top Pipe

Description (if other):

Maximum Design Fill Rate:

1.00

Units:

ft^3/min

Does the storage vessel have a roof or an open top?

Roof

Roof Type:

Horizontal fixed roof tank

Roof Height (From Roof Bottom

to Roof Top) (ft):

0.25

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel have a Vapor Return Loop?

Does the storage vessel have a Conservation Vent?

Have you attached a diagram showing the location and/or the configuration of this equipment?

No

Have you attached any manuf.'s  
data or specifications to aid the  
Dept. in its review of this  
application?

No

Comments:

Carbon PAC Silo

**45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP100001 E2 (Manufacturing and Materials Handling Equipment)**

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Aerated Sludge Tank (Above Ground)"/>
Capacity:	<input type="text" value="3.55E+04"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	<input type="text" value="Raw Material = Treated Waste water and Activated Powder Carbon, Maximum Waste feed Rate &lt;= 28,000 Gal/day, Maximum Annual Throughput &lt;= 10.22MMgal/yr."/>

**45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP100001 E3 (Manufacturing and Materials Handling Equipment)**

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Main Aeration Tank (Above Ground)"/>
Capacity:	<input type="text" value="1.91E+05"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	<input type="text" value="Material Processed : Landfill Leachate, Shell High = 18 (ft), Diameter = 45 (ft), Open Top, Maximum Design Fill Rate &lt;= 35 gal/min, Maximum Waste Feed Rate &lt;= 10.22MMgal/Yr,"/>

What type of contents is this storage vessel equipped to contain by design?

Storage Vessel Type:

Design Capacity:

Units:

Ground Location:

Is the Shell of the Equipment

Exposed to Sunlight?

Shell Color:

Description (if other):

Shell Condition:

Paint Condition:

Shell Construction:

Is the Shell Insulated?

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft<sup>2</sup>)(deg F)]:

Shape of Storage Vessel:

Shell Height (From Ground to Roof Bottom) (ft):

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

Does the storage vessel have a roof or an open top?

Roof Type:

Roof Height (From Roof Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel have a Vapor Return Loop?

Does the storage vessel have a Conservation Vent?

Have you attached a diagram showing the location and/or the configuration of this equipment?

Have you attached any manuf.'s  
data or specifications to aid the  
Dept. in its review of this  
application?

Comments:

Print Date: 1/16/2014

Make:	Power Flame Burner
Manufacturer:	Smith Cast Iron Boilers
Model:	C3-GG-25
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	4.72
Boiler Type:	Field Erected
Utility Type:	Non-Utility
Output Type:	Steam Only
Steam Output (lb/hr):	4,200.00
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

Is the boiler using? (check all that apply):

Low NOx Burner:	<input type="checkbox"/>	Type:	
Staged Air Combustion:	<input type="checkbox"/>		
Flue Gas Recirculation (FGR):	<input type="checkbox"/>	Amount (%):	

Have you attached a diagram showing the location and/or the configuration of this equipment?

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

Comments: Greenhouse Boiler



What type of contents is this storage vessel equipped to contain by design?

Storage Vessel Type:

Design Capacity:

Units:

Ground Location:

Is the Shell of the Equipment

Exposed to Sunlight?

Shell Color:

Description (if other):

Shell Condition:

Paint Condition:

Shell Construction:

Is the Shell Insulated?

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft<sup>2</sup>)(deg F)]:

Shape of Storage Vessel:

Shell Height (From Ground to Roof Bottom) (ft):

Length (ft):

Width (ft):

Diameter (ft):

Other Dimension

Description:

Value:

Units:

Fill Method:

Description (if other):

Maximum Design Fill Rate:

Units:

Does the storage vessel have a roof or an open top?

Roof Type:

Roof Height (From Roof Bottom

to Roof Top) (ft):

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel have a Vapor Return Loop?

Does the storage vessel have a Conservation Vent?

Have you attached a diagram showing the location and/or the configuration of this equipment?

Have you attached any manuf.'s  
data or specifications to aid the  
Dept. in its review of this  
application?

Comments:

Solid Waste Facility

Permit Number:

Year Opened:

Solid Waste Facility Permit  
Issuance Date:

Expected Year of Closure:

Actual Year of Closure:

Total Design Area (acres):

Total Design Capacity  
(megagrams):

Active Area (acres):

Capped Area (acres):

Is the Landfill Lined?

☐ Yes ☒ NoWas the site used for the  
disposal of Hazardous  
Waste?☐ Yes ☒ NoWas there ever co-disposal  
of Industrial Waste or  
reason to believe that the  
Waste Stream into the  
Landfill contained large  
Waste or volatile  
compounds from  
commercial sources?☐ Yes ☒ NoMaximum Estimated Landfill  
Gas Generation Rate during  
the life of the Landfill (ft<sup>3</sup>/yr):Model used to estimate  
Landfill Gas Production:Is there a Landfill Gas  
Pre-Treatment System?☐ Yes ☒ NoMethod of Landfill Gas  
Pre-Treatment:Design Capacity of Landfill  
Gas Collection System (acfm):

Overall Collection Efficiency(%):

Landfill Gas Mover/Blower  
size (hp):

Number of Extraction Wells:

Extraction Well Diameter (ft):

Extraction Well Depth (ft):

Extraction Well Overlap (%):

Extraction Well Operating  
Vacuum (in. H<sub>2</sub>O):Have you attached Actual  
Landfill Gas Analysis?☐ Yes ☒ NoHave you attached a layout  
(plan view) of the wells and  
header piping?☐ Yes ☒ NoHave you attached a waste  
deposition history (provide  
tons deposited for each  
operating year)?☐ Yes ☒ No

Comments:



Make:

Manufacturer:

Model:

Equipment Type:

Wheelabrator Clean water New Jersey Inc.
Enclosed building containing 25 agitated composting bins with temperature feedback control.

Capacity:

84.00

Units:

dry tons/day

Description:

Have you attached a diagram showing the location and/or the configuration of this equipment?

☒ Yes  
☐ No

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

☐ Yes  
☒ No

Comments:

Please find attached revised odor modeling report.

Make:	
Manufacturer:	Wheelabrator Clean Water New Jersey Inc.
Model:	
Equipment Type:	Enclosed bldg containing 25 agitated composting bins with temperature feedback control
Capacity:	84
Units:	Dry tons of biosolids per day
Have you attached a diagram showing the location and/or configuration of this equipment?	No
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	No
Comments:	

**45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP100001 E18 (Manufacturing and Materials Handling Equipment)**

Make:	
Manufacturer:	DIAMOND FG
Model:	1463B
Type of Manufacturing and Materials Handling Equipment:	Wood Tub Grinder W/Diesel ENG.
Capacity:	1.00E+05
Units:	other units
Description (if other):	Lb/Hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

Pollutant	Concentration	Units
Amines		
CO2		
Chlorides		
H2S		
Mercaptans		
Mercury		
Methane		
Non-Methane Hydrocarbons		



Make:	CaterpillarDiesel Engine	
Manufacturer:	Diamond Z	
Model:	3412E	
Maximum Rated Gross Heat Input (MMBtu/hr):	6.5	
Class:	Rich Burn	
Description:		
Duty:	Load Following	
Description:		
Minimum Load Range (%):		
Maximum Load Range (%):	38	
Stroke:	4-stroke	
Power Output (BHP):	990	
Electric Output(KW):	789	
Compression Ratio:	16.1	
Ignition Type:	Compression	
Description:		
Engine Speed (RPM):	2100	
Engine Exhaust Temperature (°F):	912	
Air to Fuel Ratio at Peak Load:		
Ratio Basis:		
Lambda Factor (scfm/scfm):	1.8	
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	6580	
Output Type:		
Heat to Power Ratio:		
Is the Engine Using a Turbocharger?	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Is the Engine Using an Aftercooler?	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Is the Engine Using (check all that apply):		
A Prestratified Charge (PSC)	<input type="checkbox"/>	A NOx Converter <input type="checkbox"/>
Air to Fuel Adjustment (AF)	<input type="checkbox"/>	Ignition Timing Retard <input type="checkbox"/>
Low Emission Combustion	<input type="checkbox"/>	Non-Selective Catalytic Retard (NSCR) <input type="checkbox"/>
Other	<input type="checkbox"/>	
Description:		
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	
	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Comments:		

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

**45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP100001 E17 (Manufacturing and Materials Handling Equipment)**

Make:	<input type="text"/>
Manufacturer:	<input type="text" value="DIAMOND FG"/>
Model:	<input type="text" value="1463B"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Wood Tub Grinder W/Diesel Engine"/>
Capacity:	<input type="text" value="1.00E+05"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="Lb/hr"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="Yes"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

Make:	Babfar Equipment Corp.
Manufacturer:	
Model:	DF 21 BG (Liquid Propane)
Equipment Type Description:	Direct Fired Air Heater

Maximum rated Gross Heat Input (MMBtu/hr-HHV):	4.5
Draft Type:	Induced
Firing Method:	Direct

Is the Process Heater using (check all that apply):

Low NOx Burner	<input type="checkbox"/>
Type of Low NOx Burner:	
Flue Gas Recirculation (FGR):	<input type="checkbox"/>

Have you attached a diagram showing the location and/or the configuration of this equipment?

<input type="radio"/> Yes
<input checked="" type="radio"/> No

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

<input type="radio"/> Yes
<input checked="" type="radio"/> No

Comments:

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

Make:	<input type="text"/>	
Manufacturer:	<input type="text" value="GE Jenbacher"/>	
Model:	<input type="text" value="J 420 GS-A82"/>	
Maximum Rated Gross Heat Input (MMBtu/hr):	<input type="text" value="12.35"/>	
Class:	<input type="text" value="Lean Burn"/>	
Description:	<input type="text"/>	
Duty:	<input type="text" value="Base Loaded"/>	
Description:	<input type="text"/>	
Minimum Load Range (%):	<input type="text"/>	
Maximum Load Range (%):	<input type="text"/>	
Stroke:	<input type="text" value="4-stroke"/>	
Power Output (BHP):	<input type="text"/>	
Electric Output(KW):	<input type="text" value="1425"/>	
Compression Ratio:	<input type="text" value="12.5"/>	
Ignition Type:	<input type="text" value="Spark"/>	
Description:	<input type="text"/>	
Engine Speed (RPM):	<input type="text" value="1800"/>	
Engine Exhaust Temperature (°F):	<input type="text" value="887"/>	
Air to Fuel Ratio at Peak Load:	<input type="text" value="0.53"/>	
Ratio Basis:	<input type="text"/>	
Lambda Factor (scfm/scfm):	<input type="text"/>	
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	<input type="text" value="0"/>	
Output Type:	<input type="text" value="Electric"/>	
Heat to Power Ratio:	<input type="text"/>	
Is the Engine Using a Turbocharger?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Is the Engine Using an Aftercooler?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Is the Engine Using (check all that apply):		
A Prestratified Charge (PSC)	<input type="checkbox"/>	A NOx Converter <input type="checkbox"/>
Air to Fuel Adjustment (AF)	<input type="checkbox"/>	Ignition Timing Retard <input type="checkbox"/>
Low Emission Combustion	<input checked="" type="checkbox"/>	Non-Selective Catalytic Retard (NSCR) <input type="checkbox"/>
Other	<input type="checkbox"/>	
Description:	<input type="text"/>	
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application? <input type="radio"/> Yes <input checked="" type="radio"/> No
Comments:	<input type="text"/>	

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

What type of contents is this storage vessel equipped to contain by design?

Liquids Only

Storage Vessel Type:

Tank

Design Capacity:

1,000,000

Units:

gallons

Ground Location:

Above Ground

Is the Shell of the Equipment

Yes

Exposed to Sunlight?

Shell Color:

Gray (Light)

Description (if other):

Shell Condition:

Paint Condition:

Good

Shell Construction:

Bolted/Riveted

Is the Shell Insulated?

No

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft<sup>2</sup>)(deg F)]:

Shape of Storage Vessel:

Cylindrical

Shell Height (From Ground to Roof Bottom) (ft):

16.50

Length (ft):

Width (ft):

Diameter (ft):

110.00

Other Dimension

Description:

depth

Value:

16.00

Units:

feet

Fill Method:

Submerged

Description (if other):

Maximum Design Fill Rate:

650.00

Units:

gal/min

Does the storage vessel have a roof or an open top?

Roof

Roof Type:

Domed vertical fixed roof tank

Roof Height (From Roof Bottom

to Roof Top) (ft):

2.10

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel have a Vapor Return Loop?

No

Does the storage vessel have a Conservation Vent?

No

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes

Have you attached any manuf.'s  
data or specifications to aid the  
Dept. in its review of this  
application?

No

Comments:

Located near the other two leachate tanks.

Make:	<input type="text"/>	
Manufacturer:	<input type="text" value="GE Jenbacher"/>	
Model:	<input type="text" value="J 420 GS-A82"/>	
Maximum Rated Gross Heat Input (MMBtu/hr):	<input type="text" value="12.35"/>	
Class:	<input type="text" value="Lean Burn"/>	
Description:	<input type="text"/>	
Duty:	<input type="text" value="Base Loaded"/>	
Description:	<input type="text"/>	
Minimum Load Range (%):	<input type="text"/>	
Maximum Load Range (%):	<input type="text"/>	
Stroke:	<input type="text" value="4-stroke"/>	
Power Output (BHP):	<input type="text"/>	
Electric Output(KW):	<input type="text" value="1425"/>	
Compression Ratio:	<input type="text" value="12.5"/>	
Ignition Type:	<input type="text" value="Spark"/>	
Description:	<input type="text"/>	
Engine Speed (RPM):	<input type="text" value="1800"/>	
Engine Exhaust Temperature (°F):	<input type="text" value="887"/>	
Air to Fuel Ratio at Peak Load:	<input type="text" value="0.53"/>	
Ratio Basis:	<input type="text"/>	
Lambda Factor (scfm/scfm):	<input type="text"/>	
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	<input type="text" value="0"/>	
Output Type:	<input type="text" value="Electric"/>	
Heat to Power Ratio:	<input type="text"/>	
Is the Engine Using a Turbocharger?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Is the Engine Using an Aftercooler?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Is the Engine Using (check all that apply):		
A Prestratified Charge (PSC)	<input type="checkbox"/>	A NOx Converter <input type="checkbox"/>
Air to Fuel Adjustment (AF)	<input type="checkbox"/>	Ignition Timing Retard <input type="checkbox"/>
Low Emission Combustion	<input checked="" type="checkbox"/>	Non-Selective Catalytic Retard (NSCR) <input type="checkbox"/>
Other	<input type="checkbox"/>	
Description:	<input type="text"/>	
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application? <input type="radio"/> Yes <input checked="" type="radio"/> No
Comments:	<input type="text"/>	

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

Make:	Caterpillar	
Manufacturer:		
Model:	3126 T/A	
Maximum Rated Gross Heat Input (MMBtu/hr):	1.75	
Class:	Rich Burn	
Description:		
Duty:	Load Following	
Description:		
Minimum Load Range (%):	70	
Maximum Load Range (%):	70	
Stroke:	4-stroke	
Power Output (BHP):	230	
Electric Output(KW):	170.83	
Compression Ratio:	17	
Ignition Type:	Compression	
Description:		
Engine Speed (RPM):	1700	
Engine Exhaust Temperature (°F):	1192	
Air to Fuel Ratio at Peak Load:		
Ratio Basis:		
Lambda Factor (scfm/scfm):		
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	7608.7	
Output Type:	Electric	
Heat to Power Ratio:		
Is the Engine Using a Turbocharger?	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Is the Engine Using an Aftercooler?	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Is the Engine Using (check all that apply):		
A Prestratified Charge (PSC)	<input type="checkbox"/>	A NOx Converter <input type="checkbox"/>
Air to Fuel Adjustment (AF)	<input type="checkbox"/>	Ignition Timing Retard <input type="checkbox"/>
Low Emission Combustion	<input type="checkbox"/>	Non-Selective Catalytic Retard (NSCR) <input type="checkbox"/>
Other	<input type="checkbox"/>	
Description:		
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application? <input type="radio"/> Yes <input checked="" type="radio"/> No	
Comments:	Engine is certified Tier 1. Machine Build Date July 2001.	

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.



**45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP100001 E38 (Manufacturing and Materials Handling Equipment)**

Make:	
Manufacturer:	McCloskey Bros. MFG
Model:	MCB 833RE
Type of Manufacturing and Materials Handling Equipment:	Trommel Screen Discharge Conveyor
Capacity:	3.50E+02
Units:	other units
Description (if other):	cu yds/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

**45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP100001 E40 (Manufacturing and Materials Handling Equipment)**

Make:	<input type="text" value="McCloskey"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text" value="MCB733RE"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Trommel Screen"/>
Capacity:	<input type="text" value="2.00E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="CU YDS/HR"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

**45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP100001 E501 (Manufacturing and Materials Handling Equipment)**

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Process Tank"/>
Capacity:	<input type="text" value="3.00E+04"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	<input type="text" value="Hight = 18(ft), Diameter = 18(ft). Maximum Design Fill Rate = 35(gal/min)"/>

Make:			
Manufacturer:	Capstone Turbine Corporation		
Model:	C30		
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	0.43		
Type of Turbine:	Aero-Derivative		
Type of Cycle:	Combined-Cycle	Description:	
Industrial Application:	Other	Description:	N/A
Power Output:	30.00	Units:	Kilowatts
Is the combustion turbine using (check all that apply):			
A Dry Low NOx Combustor:	<input checked="" type="checkbox"/>		
Steam Injection:	<input type="checkbox"/>	Steam to Fuel Ratio:	
Water Injection:	<input type="checkbox"/>	Water to Fuel Ratio:	
Other:	<input type="checkbox"/>	Description:	
Is the turbine Equipped with a Duct Burner?	<input type="radio"/> Yes <input checked="" type="radio"/> No		
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input checked="" type="radio"/> Yes <input type="radio"/> No		
	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Comments:			

Make:			
Manufacturer:	Capstone Turbine Corporation		
Model:	C30		
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	0.43		
Type of Turbine:	Aero-Derivative		
Type of Cycle:	Combined-Cycle	Description:	
Industrial Application:	Other	Description:	N/A
Power Output:	30.00	Units:	Kilowatts
Is the combustion turbine using (check all that apply):			
A Dry Low NOx Combustor:	<input checked="" type="checkbox"/>		
Steam Injection:	<input type="checkbox"/>	Steam to Fuel Ratio:	
Water Injection:	<input type="checkbox"/>	Water to Fuel Ratio:	
Other:	<input type="checkbox"/>	Description:	
Is the turbine Equipped with a Duct Burner?	<input type="radio"/> Yes <input checked="" type="radio"/> No		
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input checked="" type="radio"/> Yes <input type="radio"/> No		
	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?		
	<input type="radio"/> Yes <input checked="" type="radio"/> No		
Comments:			

Make:	<input type="text" value="Ingersoll Rand"/>		
Manufacturer:	<input type="text" value="Ingersoll Rand"/>		
Model:	<input type="text" value="MT250 (250SW-64H-212-W)"/>		
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	<input type="text" value="3.50"/>		
Type of Turbine:	<input type="text" value="Industrial"/>		
Type of Cycle:	<input type="text" value="Cogeneration"/>	Description:	<input type="text"/>
Industrial Application:	<input type="text" value="Electrical Generator"/>	Description:	<input type="text"/>
Power Output:	<input type="text" value="250.00"/>	Units:	<input type="text" value="Kilowatts"/>
Is the combustion turbine using (check all that apply):			
A Dry Low NOx Combustor:	<input checked="" type="checkbox"/>		
Steam Injection:	<input type="checkbox"/>	Steam to Fuel Ratio:	<input type="text"/>
Water Injection:	<input type="checkbox"/>	Water to Fuel Ratio:	<input type="text"/>
Other:	<input type="checkbox"/>	Description:	<input type="text"/>
Is the turbine Equipped with a Duct Burner?	<input type="radio"/> Yes <input checked="" type="radio"/> No		
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input checked="" type="radio"/> Yes <input type="radio"/> No		
	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?		
	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Comments:			

Make:	Babfar Equipment Corp.
Manufacturer:	
Model:	DF 21 BG (Liquid Propane)
Equipment Type Description:	Direct Fired Air Heater

Maximum rated Gross Heat Input (MMBtu/hr-HHV):	4.5
Draft Type:	Induced
Firing Method:	Direct

Is the Process Heater using (check all that apply):

Low NOx Burner	<input type="checkbox"/>
Type of Low NOx Burner:	
Flue Gas Recirculation (FGR):	<input type="checkbox"/>

Have you attached a diagram showing the location and/or the configuration of this equipment?

<input type="radio"/> Yes
<input checked="" type="radio"/> No

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

<input type="radio"/> Yes
<input checked="" type="radio"/> No

Comments:

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

Make:	VENTURE
Manufacturer:	Biogas Condition System
Model:	Siloxane Removal Skid
Equipment Type:	Pretreatment Devices TSA & Venture off gas
Capacity:	3,000.00
Units:	SCFM
Description:	

Have you attached a diagram showing the location and/or the configuration of this equipment?

☐ Yes  
☒ No

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

☐ Yes  
☒ No

Comments:



Make:	<input type="text"/>
Manufacturer:	<input type="text" value="GE Jenbacher"/>
Model:	<input type="text" value="J 420 GS-A82"/>
Maximum Rated Gross Heat Input (MMBtu/hr):	<input type="text" value="12.35"/>
Class:	<input type="text" value="Lean Burn"/>
Description:	<input type="text"/>
Duty:	<input type="text" value="Base Loaded"/>
Description:	<input type="text"/>
Minimum Load Range (%):	<input type="text"/>
Maximum Load Range (%):	<input type="text"/>
Stroke:	<input type="text" value="4-stroke"/>
Power Output (BHP):	<input type="text"/>
Electric Output(KW):	<input type="text" value="1425"/>
Compression Ratio:	<input type="text" value="12.5"/>
Ignition Type:	<input type="text" value="Spark"/>
Description:	<input type="text"/>
Engine Speed (RPM):	<input type="text" value="1800"/>
Engine Exhaust Temperature (°F):	<input type="text" value="887"/>
Air to Fuel Ratio at Peak Load:	<input type="text" value="0.53"/>
Ratio Basis:	<input type="text"/>
Lambda Factor (scfm/scfm):	<input type="text"/>
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	<input type="text" value="0"/>
Output Type:	<input type="text" value="Electric"/>
Heat to Power Ratio:	<input type="text"/>
Is the Engine Using a Turbocharger?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Is the Engine Using an Aftercooler?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Is the Engine Using (check all that apply):	
A Prestratified Charge (PSC)	<input type="checkbox"/> A NOx Converter <input type="checkbox"/>
Air to Fuel Adjustment (AF)	<input type="checkbox"/> Ignition Timing Retard <input type="checkbox"/>
Low Emission Combustion	<input checked="" type="checkbox"/> Non-Selective Catalytic Retard (NSCR) <input type="checkbox"/>
Other	<input type="checkbox"/>
Description:	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input checked="" type="radio"/> Yes <input type="radio"/> No
	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?
	<input type="radio"/> Yes <input checked="" type="radio"/> No
Comments:	

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

Make:	<input type="text"/>	
Manufacturer:	<input type="text" value="GE Jenbacher"/>	
Model:	<input type="text" value="J 420 GS-A82"/>	
Maximum Rated Gross Heat Input (MMBtu/hr):	<input type="text" value="12.35"/>	
Class:	<input type="text" value="Lean Burn"/>	
Description:	<input type="text"/>	
Duty:	<input type="text" value="Base Loaded"/>	
Description:	<input type="text"/>	
Minimum Load Range (%):	<input type="text"/>	
Maximum Load Range (%):	<input type="text"/>	
Stroke:	<input type="text" value="4-stroke"/>	
Power Output (BHP):	<input type="text"/>	
Electric Output(KW):	<input type="text" value="1425"/>	
Compression Ratio:	<input type="text" value="12.5"/>	
Ignition Type:	<input type="text" value="Spark"/>	
Description:	<input type="text"/>	
Engine Speed (RPM):	<input type="text" value="1800"/>	
Engine Exhaust Temperature (°F):	<input type="text" value="887"/>	
Air to Fuel Ratio at Peak Load:	<input type="text" value="0.53"/>	
Ratio Basis:	<input type="text"/>	
Lambda Factor (scfm/scfm):	<input type="text"/>	
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	<input type="text" value="0"/>	
Output Type:	<input type="text" value="Electric"/>	
Heat to Power Ratio:	<input type="text"/>	
Is the Engine Using a Turbocharger?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Is the Engine Using an Aftercooler?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Is the Engine Using (check all that apply):		
A Prestratified Charge (PSC)	<input type="checkbox"/>	A NOx Converter <input type="checkbox"/>
Air to Fuel Adjustment (AF)	<input type="checkbox"/>	Ignition Timing Retard <input type="checkbox"/>
Low Emission Combustion	<input checked="" type="checkbox"/>	Non-Selective Catalytic Retard (NSCR) <input type="checkbox"/>
Other	<input type="checkbox"/>	
Description:	<input type="text"/>	
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application? <input type="radio"/> Yes <input checked="" type="radio"/> No
Comments:	<input type="text"/>	

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

Make:	<input type="text"/>	
Manufacturer:	<input type="text" value="GE Jenbacher"/>	
Model:	<input type="text" value="J 420 GS-A82"/>	
Maximum Rated Gross Heat Input (MMBtu/hr):	<input type="text" value="12.35"/>	
Class:	<input type="text" value="Lean Burn"/>	
Description:	<input type="text"/>	
Duty:	<input type="text" value="Base Loaded"/>	
Description:	<input type="text"/>	
Minimum Load Range (%):	<input type="text"/>	
Maximum Load Range (%):	<input type="text"/>	
Stroke:	<input type="text" value="4-stroke"/>	
Power Output (BHP):	<input type="text"/>	
Electric Output(KW):	<input type="text" value="1425"/>	
Compression Ratio:	<input type="text" value="12.5"/>	
Ignition Type:	<input type="text" value="Spark"/>	
Description:	<input type="text"/>	
Engine Speed (RPM):	<input type="text" value="1800"/>	
Engine Exhaust Temperature (°F):	<input type="text" value="887"/>	
Air to Fuel Ratio at Peak Load:	<input type="text" value="0.53"/>	
Ratio Basis:	<input type="text"/>	
Lambda Factor (scfm/scfm):	<input type="text"/>	
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	<input type="text" value="0"/>	
Output Type:	<input type="text" value="Electric"/>	
Heat to Power Ratio:	<input type="text"/>	
Is the Engine Using a Turbocharger?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Is the Engine Using an Aftercooler?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Is the Engine Using (check all that apply):		
A Prestratified Charge (PSC)	<input type="checkbox"/>	A NOx Converter <input type="checkbox"/>
Air to Fuel Adjustment (AF)	<input type="checkbox"/>	Ignition Timing Retard <input type="checkbox"/>
Low Emission Combustion	<input checked="" type="checkbox"/>	Non-Selective Catalytic Retard (NSCR) <input type="checkbox"/>
Other	<input type="checkbox"/>	
Description:	<input type="text"/>	
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application? <input type="radio"/> Yes <input checked="" type="radio"/> No
Comments:	<input type="text"/>	

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

**45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP100001 E37 (Manufacturing and Materials Handling Equipment)**

Make:	<input type="text"/>
Manufacturer:	<input type="text" value="McCloskey Bros. MFG"/>
Model:	<input type="text" value="833 RE"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Trommel Screen"/>
Capacity:	<input type="text" value="3.50E+02"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="CU YDS/HR"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

Make:	<input type="text" value="Perkins"/>	
Manufacturer:	<input type="text" value="Perkins"/>	
Model:	<input type="text" value="3056"/>	
Maximum Rated Gross Heat Input (MMBtu/hr):	<input type="text" value="0.44"/>	
Class:	<input type="text" value="Lean Burn"/>	
Description:	<input type="text"/>	
Duty:	<input type="text" value="Load Following"/>	
Description:	<input type="text"/>	
Minimum Load Range (%):	<input type="text" value="70"/>	
Maximum Load Range (%):	<input type="text" value="70"/>	
Stroke:	<input type="text" value="4-stroke"/>	
Power Output (BHP):	<input type="text" value="173"/>	
Electric Output(KW):	<input type="text"/>	
Compression Ratio:	<input type="text" value="17.3"/>	
Ignition Type:	<input type="text" value="Compression"/>	
Description:	<input type="text"/>	
Engine Speed (RPM):	<input type="text" value="2200"/>	
Engine Exhaust Temperature (°F):	<input type="text" value="240"/>	
Air to Fuel Ratio at Peak Load:	<input type="text"/>	
Ratio Basis:	<input type="text"/>	
Lambda Factor (scfm/scfm):	<input type="text"/>	
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	<input type="text"/>	
Output Type:	<input type="text" value="Pump/Compressor"/>	
Heat to Power Ratio:	<input type="text"/>	
Is the Engine Using a Turbocharger?	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Is the Engine Using an Aftercooler?	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Is the Engine Using (check all that apply):		
A Prestratified Charge (PSC)	<input type="checkbox"/>	A NOx Converter <input type="checkbox"/>
Air to Fuel Adjustment (AF)	<input type="checkbox"/>	Ignition Timing Retard <input type="checkbox"/>
Low Emission Combustion	<input type="checkbox"/>	Non-Selective Catalytic Retard (NSCR) <input type="checkbox"/>
Other	<input type="checkbox"/>	
Description:	<input type="text"/>	
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application? <input type="radio"/> Yes <input checked="" type="radio"/> No	
Comments:	<input type="text" value="Engine is Tier 2 and CARB certified."/>	

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

**45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP100001 E41 (Manufacturing and Materials Handling Equipment)**

Make:	<input type="text" value="McCloskey"/>
Manufacturer:	<input type="text" value="McCloskey"/>
Model:	<input type="text" value="MCB 733RE"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Trommel Screen Discharge Conveyor"/>
Capacity:	<input type="text"/>
Units:	<input type="text" value="other units"/>
Description (if other):	<input type="text" value="cu yds/hr"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	

**45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP100001 E502 (Manufacturing and Materials Handling Equipment)**

Make:	<input type="text"/>
Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Type of Manufacturing and Materials Handling Equipment:	<input type="text" value="Secondary Aeration Tank"/>
Capacity:	<input type="text" value="3.58E+04"/>
Units:	<input type="text" value="gallons"/>
Description (if other):	<input type="text"/>
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input type="text" value="No"/>
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	<input type="text" value="No"/>
Comments:	<input type="text" value="Raw Material = Treated Waste Water and Actvated Powder Carbon. Maximum Waste Feed Rate = 28000 gal/day, Maximum Annual Throughput &gt;= 10.22MMgal/Yr"/>

Make:			
Manufacturer:	Capstone Turbine Corporation		
Model:	C30		
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	0.43		
Type of Turbine:	Aero-Derivative		
Type of Cycle:	Combined-Cycle	Description:	
Industrial Application:	Other	Description:	N/A
Power Output:	30.00	Units:	Kilowatts
Is the combustion turbine using (check all that apply):			
A Dry Low NOx Combustor:	<input checked="" type="checkbox"/>		
Steam Injection:	<input type="checkbox"/>	Steam to Fuel Ratio:	
Water Injection:	<input type="checkbox"/>	Water to Fuel Ratio:	
Other:	<input type="checkbox"/>	Description:	
Is the turbine Equipped with a Duct Burner?	<input type="radio"/> Yes <input checked="" type="radio"/> No		
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input checked="" type="radio"/> Yes <input type="radio"/> No		
	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?		
	<input type="radio"/> Yes <input checked="" type="radio"/> No		
Comments:			



Make:			
Manufacturer:	Capstone Turbine Corporation		
Model:	C30		
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	0.43		
Type of Turbine:	Aero-Derivative		
Type of Cycle:	Combined-Cycle	Description:	
Industrial Application:	Other	Description:	N/A
Power Output:	30.00	Units:	Kilowatts
Is the combustion turbine using (check all that apply):			
A Dry Low NOx Combustor:	<input checked="" type="checkbox"/>		
Steam Injection:	<input type="checkbox"/>	Steam to Fuel Ratio:	
Water Injection:	<input type="checkbox"/>	Water to Fuel Ratio:	
Other:	<input type="checkbox"/>	Description:	
Is the turbine Equipped with a Duct Burner?	<input type="radio"/> Yes <input checked="" type="radio"/> No		
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input checked="" type="radio"/> Yes <input type="radio"/> No		
	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?		
	<input type="radio"/> Yes <input checked="" type="radio"/> No		
Comments:			

**New Jersey Department of Environmental Protection  
Control Device Inventory**

<b>CD NJID</b>	<b>Facility's Designation</b>	<b>Description</b>	<b>CD Type</b>	<b>Install Date</b>	<b>Grand-Fathered</b>	<b>Last Mod. (Since 1968)</b>	<b>CD Set ID</b>
CD1	Flare -1	Enclosed Flare -1	Flare	8/1/1994	No	8/1/1994	
CD3	Flare-4	Enclosed Flare -4	Flare	9/1/1998	No	9/1/1998	
CD4	Biofilters	Co-Composting Facility north and south biofilters	Biofilter	5/1/1998	No	1/29/2001	
CD6	Bag filter	Carbon silo baghouse	Particulate Filter (Baghouse)	2/1/1989	No	2/1/1989	
CD7	Adsorber	Aerated Flow Equalization Tank (Carbon Adsorber) (30,000 gallon Capacity)	Adsorber	2/1/1989	No	2/1/1989	
CD8	Flare -5	Candlestick Flare- 5	Flare	1/16/2003	No	1/16/2003	
CD9	Flare - 6	Enclosed Flare - 6	Flare	1/1/2011	No		

Print Date: 1/16/2014

Make:	Enclosed Flare
Manufacturer:	LFG Specialities
Model:	EF64018
Type:	Enclosed
Minimum Residence Time (sec):	1.00
Maximum Rated Gross Heat Input (MMBtu/hr):	27.00
Auxiliary Fuel:	Propane
Description:	
Method of Pilot Flame Monitoring:	Flame-Troil II System/UV Scanner
Monitoring Location:	Local
Automatic Gas Shutoff After Loss of Flame?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Automatic Reignition After Loss of Flame?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Minimum Gas Flow Rate (acfm):	200.0
Minimum Operating Temperature (°F):	1,500.0
Minimum Heat Content at Burner Tip (Btu/ft³):	300.00
Flare Operation Type:	Continuous
Does Flare have smokeless design?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Is Flare equipped with flame retainer?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Is Flare equipped with flame arrestor?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Is Flare equipped with LEL monitor?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Flare Stack Diameter (inches):	84.00
Lower Heat Content of source gas (BTU/scf):	500
Lower Heat Content of Supplemental Fuel (BTU/scf):	
Destruction and Removal Efficiency (%):	98.00
How was Efficiency determined?	Design Specifications
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	1
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	Monitor Stack Temperature Continuously
Have you attached data from recent performance testing?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Comments:	

Comments.

Print Date: 1/16/2014

Make:	
Manufacturer:	John Zink Company
Model:	ZTOF
Type:	Enclosed
Minimum Residence Time (sec):	0.60
Maximum Rated Gross Heat Input (MMBtu/hr):	81.80
Auxiliary Fuel:	Propane
Description:	
Method of Pilot Flame Monitoring:	UV Scanner
Monitoring Location:	Local
Automatic Gas Shutoff After Loss of Flame?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Automatic Reignition After Loss of Flame?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Minimum Gas Flow Rate (acfm):	450.0
Minimum Operating Temperature (°F):	1,500.0
Minimum Heat Content at Burner Tip (Btu/ft³):	300.00
Flare Operation Type:	Continuous
Does Flare have smokeless design?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Is Flare equipped with flame retainer?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Is Flare equipped with flame arrestor?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Is Flare equipped with LEL monitor?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Flare Stack Diameter (inches):	132.00
Lower Heat Content of source gas (BTU/scf):	500
Lower Heat Content of Supplemental Fuel (BTU/scf):	
Destruction and Removal Efficiency (%):	98.00
How was Efficiency determined?	Design Specifications
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	1
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	Monitor Stack Temperature Continuously
Have you attached data from recent performance testing?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Comments:	

Comments.

Make:	
Manufacturer:	Wheelabrator Clean Water New Jersey, Inc
Model:	
Maximum Air Flow Rate to Biofilter (acfm):	270000
Maximum Temperature of Vapor Stream to Biofilter (deg F):	120
Minimum Temperature of Vapor Stream to Biofilter (deg F):	90
Minimum Moisture Content of Vapor Stream to Biofilter (%):	95
Bed Composition:	Wood chips, bark mulch, leaf compost
Type of Adsorbate:	Ammonia, organic compounds, reduced sulfur compounds
Bed Height:	3
Bed Length:	300
Bed Width:	270
Units:	feet
Other Bed Dimension:	
Value:	
Units:	
Minimum Pressure Drop Across Biofilter (in. H2O):	2
Maximum Pressure Drop Across Biofilter (in. H2O):	14
Bed Activity (pH):	5 to 9
Method Used to Maintain Bed Moisture:	Humidification of input air; weekly monitoring for moisture; surface sprinkler grid
Method Used to Maintain Bed Activity:	Weekly or biweekly pH monitoring; addition of water with appropriate pH to adjust bed pH

Method Used to Maintain Bed Temperature: Weekly monitoring of bed temperature; control of temperature of composting material

Method Used to Reactivate Biofilter Material: Turning as needed, replacement when necessary

Method Used to Determine When Biofilter Should Be Reactivated: Monitoring of pressure drop, pH, temperature and moisture

Method Used to Dispose of Biofilter Material: Use as amendment in composting process

Is the Biofilter Covered? No

Is the Biofilter Heated? No

Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-permitted Sources): 1

Alternative Method to Demonstrate Control Apparatus is Operating Properly: Sense of smell of employees, visitors and neighbors

Have you attached data from recent performance testing? No

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus? No

Have you attached a diagram showing the location and/or configuration of this control apparatus? No

Comments:



### Control Device Design Efficiency Table

[illegible]

## 45949 BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX BOP100001 CD6 (Particulate Filter (Baghouse))

Print Date: 1/16/2014

Make:	Flex - Kleen
Manufacturer:	Flex - Kleen
Model:	30 PVTL - 9 (IIG)
Number of Bags:	9
Size of Bags (ft²):	30.00
Total Bag Area (ft²):	270.0
Bag Fabric:	Pleated Filters B60430
Fabric Weight (oz/ft²):	
Fabric Weave:	
Fabric Finish:	
Maximum Design Temperature Capability (°F):	104.0
Maximum Design Air Flow Rate (acfm):	600.0
Draft Type:	
Maximum Air Flow Rate to Cloth Area Ratio:	2.22
Minimum Operating Pressure Drop (in. H2O):	4.00
Maximum Operating Pressure Drop (in. H2O):	17.00
Method of Monitoring Pressure Drop:	Differential Pressure Gauge
Maximum Inlet Temperature (°F):	104.0
Minimum Inlet Temperature (°F):	34.0
Dew Point of Gas Stream Maximum Inlet Temperature (°F):	
Maximum Operating Exhaust Gas Flow Rate (acfm):	600.0
Maximum Inlet Gas Stream Moisture Content (%):	
Method for Determining When Bag Replacement is Required:	Differential Pressure Gauge
Method for Determining When Cleaning is Required:	Differential Pressure Gauge
Method of Bag Cleaning:	Pulse Jet
Description:	
Is Bag Cleaning Conducted On-Line?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	1
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	Visual
Have you attached a Particle Size Distribution Analysis?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached data from recent performance testing?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached any manufacturer's data or specifications	

in support of the feasibility and/or effectiveness of this control apparatus?

☐ Yes ☒ No

Have you attached a diagram showing the location and/or configuration of this control apparatus?

☐ Yes ☒ No

Comments:

The Air Flow Rate to Cloth Area Ratio is 2.22/1

Print Date: 1/16/2014

Make:	Candlestick Flare
Manufacturer:	Perennial Energy, INc.
Model:	FL-8C
Type:	Open
Minimum Residence Time (sec):	
Maximum Rated Gross Heat Input (MMBtu/hr):	3.90
Auxilliary Fuel:	Other
Description:	none
Method of Pilot Flame Monitoring:	thermocouple
Monitoring Location:	Local
Automatic Gas Shutoff After Loss of Flame?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Automatic Reignition After Loss of Flame?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Minimum Gas Flow Rate (acfm):	120.0
Minimum Operating Temperature (°F):	
Minimum Heat Content at Burner Tip (Btu/ft³):	300.00
Flare Operation Type:	Continuous
Does Flare have smokeless design?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Is Flare equipped with flame retainer?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Is Flare equipped with flame arrestor?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Is Flare equipped with LEL monitor?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Flare Stack Diameter (inches):	8.00
Lower Heat Content of source gas (BTU/scf):	500
Lower Heat Content of Supplemental Fuel (BTU/scf):	
Destruction and Removal Efficiency (%):	
How was Efficiency determined?	
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	3
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	Visual Observations
Have you attached data from recent performance testing?	<input type="radio"/> Yes <input type="radio"/> No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Comments:	O & M Manual Attached

Comments.

[No Individual Attached](#)

Make:	
Manufacturer:	Abutec flare or equivalent
Model:	HTF-1
Type:	Enclosed
Minimum Residence Time (sec):	0.70
Maximum Rated Gross Heat Input (MMBtu/hr):	5.40
Auxiliary Fuel:	Landfill gas
Description:	
Method of Pilot Flame Monitoring:	UV
Monitoring Location:	Local
Automatic Gas Shutoff After Loss of Flame?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Automatic Reignition After Loss of Flame?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Minimum Gas Flow Rate (acfm):	110.0
Minimum Operating Temperature (°F):	1,400.0
Minimum Heat Content at Burner Tip (Btu/ft³):	455.00
Flare Operation Type:	Continuous
Does Flare have smokeless design?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Is Flare equipped with flame retainer?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Is Flare equipped with flame arrestor?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Is Flare equipped with LEL monitor?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Flare Stack Diameter (inches):	30.00
Lower Heat Content of source gas (BTU/scf):	595
Lower Heat Content of Supplemental Fuel (BTU/scf):	595
Destruction and Removal Efficiency (%):	99.00
How was Efficiency determined?	
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	1
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	Temperature
Have you attached data from recent performance testing?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Comments:	1 source with pretreatment from one of two devices

Comments.

1. Source with pretreatment from one or two devices,  
either the TSA or Venture Gas Conditioning Skids.

**BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX (45949)**

Date: 1/16/2014

**BOP100001**

**New Jersey Department of Environmental Protection  
Emission Points Inventory**

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT1	Flare -1	Flare-1 Stack	Round	84	40	240	1,600.0	1,500.0	2,000.0	24,550.0	10,000.0	49,100.0	Up	
PT3	Flare -4	Flare-4 stack	Round	132	40	240	1,600.0	1,500.0	1,800.0	89,000.0	20,000.0	178,000.0	Up	
PT4	Boiler-1	Greenhouse boiler stack	Round	20	29	255	525.0	500.0	550.0	2,700.0	2,700.0	2,700.0	Up	
PT6	Tub Gr. ICE	Diesel Engine on Tub Grinder	Round	6	12	1,225	912.0	862.0	962.0	5,500.0	5,250.0	5,750.0	Up	
PT7	CAT Generato	Caterpillar generator set	Round	5	21	800	971.0	896.0	1,046.0	1,650.0	1,400.0	1,935.0	Up	
PT9	Kohler EG	Kohler emergency generator set	Round	5	7	300	870.0	850.0	895.0	1,050.0	525.0	2,100.0	Up	
PT10	Biofilters	Co-Composting Facility north and south biofilters	Rectangle	999	1	1,200	85.0	50.0	120.0	100,000.0	50,000.0	135,000.0	Up	
PT12	Adsorber-1	Carbon adsorber for aerated sludge tank	Rectangle	38	1	220	65.0	50.0	80.0	480.0	480.0	480.0	Horizontal	
PT13	Bag filter-1	Bag filter for carbon silo	Round	5	44	220	65.0	50.0	80.0	500.0	400.0	600.0	Up	
PT14	Aeration tan	Main aeration tank vent	Round	45	18	220	65.0	50.0	80.0	600.0	400.0	800.0	Up	
PT15	LStorage V-1	Leachate storage tank vent 1	Round	10	24	560	65.0	50.0	80.0	1.0	0.0	10.0	Up	
PT16	LStorage V-2	Leachate storage tank vent 2	Round	6	23	560	65.0	50.0	80.0	0.3	0.0	3.4	Down	
PT17	LSurge V-1	Leachate surge tank vent 1	Round	10	25	650	65.0	50.0	80.0	10.0	0.0	98.0	Up	
PT18	LSurge V-2	Leachate surge tank vent 2	Round	6	2	625	65.0	50.0	80.0	3.0	0.0	36.0	Down	
PT20	Micro5	Stack Microturbine 5	Round	18	13	360	545.0	300.0	545.0	4,340.0	0.0	4,340.0	Up	
PT22	Tub Grinder	Hammermill	Window	18	6	800	50.0	0.0	100.0				Horizontal	
PT23	Conveyor	Stacking Conveyor	Surface	80	8	800	50.0	0.0	100.0				Horizontal	
PT29	LST 3 Vent 1	Leachate Tank No. 3 Vent 1	Round	12	35	1,400	65.0	50.0	80.0	20.0	0.0	88.9	Down	



**BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX (45949)**

Date: 1/16/2014

**BOP100001**

**New Jersey Department of Environmental Protection  
Emission Points Inventory**

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT30	Flare-5	Flare -5 Stack	Round	8	24	240	1,500.0	1,400.0	2,000.0	69,200.0	5,900.0	92,700.0	Up	
PT31	Stack1	Stack from Combined Heat Exchanger	Round	10	12	356	480.0	430.0	530.0	2,200.0	0.0	2,200.0	Up	
PT35	TS1-ENG	Trommel Screen Engine	Round	4	11	800	901.0	898.0	923.0	1,134.0	908.0	1,497.0	Horizontal	
PT36	TS1	Trommel Screen	Window	96	6	800	50.0	0.0	100.0				Up	
PT37	TS1-DC	Trommel Screen Discharge Conveyor	Surface	54	3	800	50.0	0.0	100.0				Up	
PT38	TS2-ENG	Trommel Screen Engine	Round	3	12	1,200	750.0	700.0	772.0	700.0	500.0	848.0	Horizontal	
PT39	TS2	Trommel Screen	Window	84	6	1,200	50.0	0.0	100.0				Up	
PT40	TS2-DC	Trommel Screen Discharge Conveyor	Surface	170	12	1,200	50.0	0.0	100.0	10,800.0	0.0	15,000.0	Up	
PT41	LFG Engine 1	LFG Engine # 1 Stack	Round	20	34		815.0	70.0	1,000.0	10,800.0	0.0	15,000.0	Up	
PT42	LFG Engine 2	LFG Engine # 2 Stack	Round	20	34		815.0	70.0	1,000.0	10,800.0	0.0	15,000.0	Up	
PT43	LFG Engine 3	LFG Engine # 3 Stack	Round	20	34		815.0	70.0	1,000.0	10,800.0	0.0	15,000.0	Up	
PT44	LFG Engine 4	LFG Engine # 4 Stack	Round	20	34		815.0	70.0	1,000.0	10,800.0	0.0	15,000.0	Up	
PT45	LFG Engine 5	LFG Engine # 5 Stack	Round	20	34		815.0	70.0	1,000.0	10,800.0	0.0	15,000.0	Up	
PT46	Flare- 6	Flare 6 stack	Round	30	29	145	1,400.0	1,400.0	1,800.0	1,500.0	0.0	2,000.0	Up	
PT291	LST 3 Vent 2	Leachate Tank No. 3 Vent 2	Round	12	35	1,400				20.0	0.0	88.9	Down	
PT292	LST 3 Vent 3	Leachate Tank No. 3 Vent 3	Round	12	35	1,400				20.0	0.0	88.9	Down	
PT293	LST 3 Vent 4	Leachate Tank No. 3 Vent 4	Round	12	35	1,400				20.0	0.0	88.9	Down	
PT501	EqualTank	Aerated Equalization Tank (30K)												

**BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX (45949)**

Date: 1/16/2014

**BOP100001****New Jersey Department of Environmental Protection  
Emission Points Inventory**

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT502	AerationTk	Secondary Aeration Tank (35.8K)												
PT503	Biofilters	Co-Composting Facility north and south biofilters	Rectangle	999	1	1,200	85.0	50.0	120.0	100,000.0	50,000.0	135,000.0	Up	

**BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX (45949)**

Date: 1/16/2014

**BOP100001****New Jersey Department of Environmental Protection  
Emission Unit/Batch Process Inventory****U 1 Landfill Landfill Areas (1 and 2), Three Flares (CD1, CD3 & CD8)**

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	Landfill	Landfill Areas (1 and 2), Two Flares (CD1, CD3 and CD8)	Normal - Steady State	E10	CD1 (P) CD3 (P) CD8 (S)	PT1 PT3 PT30	5-01-004-06	8,760.0	8,760.0	B	120.0	1,600.0	1,400.0	2,000.0
OS2	GCCS	Landfill Gas Collection and Control System	Normal - Steady State	E10										

**U 2 Boiler-1 Greenhouse Boiler**

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	Boiler-1NG	Greenhouse Boiler Burning Natural Gas	Normal - Steady State	E9		PT4	2-03-001-01	0.0	4,380.0		0.0	2,700.0	500.0	550.0
OS2	Boiler-1LG	Greenhouse Boiler Burning Landfill Gas	Normal - Steady State	E9		PT4	2-03-001-01	0.0	4,380.0		0.0	2,700.0	500.0	550.0
OS3	Boiler-1P	Greenhouse Boiler Burning Propane	Normal - Steady State	E9		PT4	2-03-001-01	0.0	4,380.0		0.0	2,700.0	500.0	550.0

**BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX (45949)**

Date: 1/16/2014

**BOP100001****New Jersey Department of Environmental Protection  
Emission Unit/Batch Process Inventory****U 4 Tub gr. ICE Caterpillar Internal Combustion Engine on Tub Grinder**

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	Tub Gr. ICE	Diesel Fuel Internal Combustion Engine	Normal - Steady State	E13		PT6	2-02-001-07	0.0	902.0	A	5,250.0	5,750.0	862.0	987.0
OS2	TubGrinder	Hammermill Pulverizes Woodwaste	Normal - Steady State	E17		PT22	5-02-006-02	0.0	902.0					
OS3	Conveyor	Stack Conveyor - Transfer woodchips from the Tub Grinder to Trucks	Normal - Steady State	E18		PT23	5-02-006-02	0.0	902.0					

**U 7 Kohler EG Kohler Emergency Generator with (ICE)**

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	Kohler EG	Kohler Emergency Generator	Normal - Steady State	E8		PT9	2-03-001-01	0.0	500.0		0.0	1,850.0	820.0	970.0

**BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX (45949)**

Date: 1/16/2014

**BOP100001****New Jersey Department of Environmental Protection  
Emission Unit/Batch Process Inventory****U 8 CCF Co-composting facility**

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	CCF	Co-Composting Facility	Normal - Steady State	E11	CD4 (P)	PT10	5-02-800-01 5-01-004-06	8,760.0	8,760.0	A	9,999.9	9,999.9	50.0	120.0
OS3	CCF Heater 3	Co-Composting Facility Heater No. 3	Normal - Steady State	E26	CD4 (P)	PT10	1-05-001-10	0.0	500.0		150,000.0	150,000.0	50.0	120.0
OS4	CCF Heater 4	Co-Composting Facility Heater No. 4	Normal - Steady State	E27	CD4 (P)	PT10	1-05-001-10	0.0	500.0		150,000.0	150,000.0	50.0	120.0

**U 9 Carbon Silo Dust - Powdered Activated Carbon Silo**

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	Carbon Silo	Dust-Powdered Activated Carbon Silo	Normal - Steady State	E1	CD6 (P)	PT12					600.0	600.0	60.0	60.0

**BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX (45949)**

Date: 1/16/2014

**BOP100001****New Jersey Department of Environmental Protection  
Emission Unit/Batch Process Inventory****U 11 L.Treatment Leachate Treatment System**

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	L. Surge Tk	Leachate Surge Tank (200,000 gallons)	Normal - Steady State	E5		PT15	5-02-800-01	0.0	8,760.0		134.0	134.0	65.0	65.0
OS2	Storage Tank	Leachate Storage Tank (200,000 gal)	Normal - Steady State	E4		PT15 PT16	5-02-800-01	0.0	8,760.0	A	0.0	10.0	35.0	65.0
OS3	Equaliz Tank	Aeration Flow Equalization Tank (30,000 gallons)	Normal - Steady State	E501				0.0	8,760.0		400.0	450.0	55.0	65.0
OS4	Aeration Tk1	Main Aeration Tank (190,700 gallons)	Normal - Steady State	E3				0.0	8,760.0	A	400.0	800.0	55.0	65.0
OS5	Aeration Tk2	Secondary Aeration Tank (35,800 gallons)	Normal - Steady State	E502	CD7 (P)	PT502	5-02-800-01	0.0	8,760.0		0.0	400.0	0.0	65.0
OS6	Sludge Tank	Aerated Sludge Tank (35,500 gallons)	Normal - Steady State	E2	CD7 (P)		5-02-800-01	0.0	8,760.0		300.0	400.0	55.0	65.0

**BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX (45949)**

Date: 1/16/2014

**BOP100001**

**New Jersey Department of Environmental Protection  
Emission Unit/Batch Process Inventory**

**U 19 LST # 3 Leachate Storage Tank No. 3 ( 1 million gallon)**

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	LST #3	Leachate Storage Tank No. 3	Normal - Steady State	E19		PT29 PT291 PT292 PT293	5-01-004-06	0.0	8,760.0		0.0	88.9	50.0	80.0

**U 20 Micro Turbin Micro-Turbines**

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	Micro-1	Greenhouse Microturbine 1-Landfill Gas	Normal - Steady State	E2201			5-01-004-21	0.0	8,760.0		0.0	550.0	430.0	530.0
OS2	Micro-2	Greenhouse Microturbine 2-Landfill Gas	Normal - Steady State	E2202			5-01-004-21	0.0	8,760.0		0.0	550.0	430.0	530.0
OS3	Micro-3	Greenhouse Microturbine 3-Landfill Gas	Normal - Steady State	E2203			5-01-004-21	0.0	8,760.0		0.0	550.0	430.0	530.0
OS4	Micro-4	Greenhouse Microturbine 4-Landfill Gas	Normal - Steady State	E2204			5-01-004-21	0.0	8,760.0		0.0	550.0	430.0	530.0
OS5	Micro-1	Greenhouse Microturbine 1-Natural Gas	Normal - Steady State	E2201			2-03-002-02	0.0	8,760.0		0.0	550.0	430.0	530.0
OS6	Micro-2	Greenhouse Microturbine 2-Natural Gas	Normal - Steady State	E2202			2-03-002-02	0.0	8,760.0		0.0	550.0	430.0	530.0
OS7	Micro-3	Greenhouse Microturbine 3-Natural Gas	Normal - Steady State	E2203			2-03-002-02	0.0	8,760.0		0.0	550.0	430.0	530.0

**BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX (45949)**

Date: 1/16/2014

**BOP100001****New Jersey Department of Environmental Protection  
Emission Unit/Batch Process Inventory****U 20 Micro Turbin Micro-Turbines**

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS8	Micro-4	Greenhouse Microturbine 4-Natural Gas	Normal - Steady State	E2204			2-03-002-02	0.0	8,760.0		0.0	550.0	430.0	

**U 21 Micro5 Microturbine 5**

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS2	Micro5-LFG	Microturbine No 5 Landfill Gas	Normal - Steady State	E23		PT20	2-01-008-01	0.0	8,760.0		0.0	4,340.0	300.0	545.0

**U 30 LFG to Energ Five (5) LFG Engines with a Gas Conditioning, Skid System and a Temperature Swing Adsorber (TSA) System**

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS11	LFG Eng # 1	Engine # 1 firing landfill gas, Normal Operation	Normal - Steady State	E31		PT41	2-01-008-02	0.0	8,300.0		0.0	15,000.0	70.0	1,000.0



**BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX (45949)**

Date: 1/16/2014

**BOP100001**

**New Jersey Department of Environmental Protection  
Emission Unit/Batch Process Inventory**

**U 30 LFG to Energ Five (5) LFG Engines with a Gas Conditioning, Skid System and a Temperature Swing Adsorber (TSA) System**

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS12	LFG Eng # 2	Engine # 2 firing landfill gas, Normal Operation	Normal - Steady State	E32		PT42	2-01-008-02	0.0	8,300.0		0.0	15,000.0	70.0	1,000.0
OS13	LFG Eng # 3	Engine # 3 firing landfill gas, Normal Operation	Normal - Steady State	E33		PT43	2-01-008-02	0.0	8,300.0		0.0	15,000.0	70.0	1,000.0
OS14	LFG Eng # 4	Engine # 4 firing landfill gas, Normal Operation	Normal - Steady State	E34		PT44	2-01-008-02	0.0	8,300.0		0.0	15,000.0	70.0	1,000.0
OS15	LFG Eng # 5	Engine # 5 firing landfill gas, Normal Operation	Normal - Steady State	E35		PT45	2-01-008-02	0.0	8,300.0		0.0	15,000.0	70.0	1,000.0
OS16	Eng Pretrtmt	Pretreatment Devices TSA & Venture off gas	Normal - Steady State	E2205	CD9 (P)	PT46		4,380.0	5,000.0		0.0	2,000.0	1,400.0	1,800.0
OS21	Eng1 Start-U	Engine # 1 firing Landfill Gas, Start-up Periods	Startup	E31										
OS22	Eng2 Start-U	Engine # 2 firing Landfill Gas, Start-up Periods	Startup	E32										
OS23	Eng3 Start-U	Engine # 3 firing Landfill Gas, Start-up Periods	Startup	E33										
OS24	Eng4 Start-U	Engine # 4 firing Landfill Gas, Start-up Periods	Startup	E34										
OS25	Eng5 Start-U	Engine # 5 firing Landfill Gas, Start-up Periods	Startup	E35										
OS26	Prtrtmtstart	Pretreatment Devices TSA & Venture off gas - start up	Startup	E2205	CD9 (P)	PT46		75.0	75.0					

**BURLINGTON COUNTY RESOURCE RECOVERY COMPLEX (45949)**

Date: 1/16/2014

**BOP100001****New Jersey Department of Environmental Protection  
Emission Unit/Batch Process Inventory****U 36 TS-1 Trommel Screen for Wood Chips and Landfill Cover**

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	Trommel ICE	Trommel Screen No. 1 Engine	Normal - Steady State	E36		PT35	2-02-001-02	0.0	500.0		908.0	1,497.0	898.0	923.0
OS2	Trommel Scr.	Trommel Screen No. 1	Normal - Steady State	E37		PT36	3-05-106-04	0.0	500.0				0.0	100.0
OS3	Trommel Conv	Trommel Screen No. 1 Conveyor	Normal - Steady State	E38		PT37	3-05-106-04	0.0	500.0				0.0	100.0

**U 37 TS-2 Co-composting trommel screen**

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	TS ICE 2	Internal Combustin Engine on Co-compositng trommel screen	Normal - Steady State	E39		PT38	2-02-001-02	0.0	2,080.0		500.0	848.0	700.0	772.0
OS2	TS-2	Co-composting trommel screen	Normal - Steady State	E40		PT39	3-05-106-04	0.0	2,080.0				0.0	100.0
OS3	TS 2-DC	Discharge Conveyor on trommel screen	Normal - Steady State	E41		PT40	3-05-106-04	0.0	2,080.0				0.0	100.0

Date: 1/16/2014

**New Jersey Department of Environmental Protection  
Subject Item Group Inventory**